# AMERICAN RAILROAD JOURNAL.

# STEAM NAVIGATION, COMMERCE, MINING, MANUFACTURES.

HENRY V. POOR, Editor.

ESTABLISHED 1831.

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### AMERICAN RAILROAD JOURNAL.

PUBLISHED AT 54 WALL STREET, NEW YORK.

Saturday, March 31, 1849.

Wanted Immediately.

Wanted Immediately.

SOO folds. to the yard, for laying 80 miles of road, by the Columbus and Lake Erie Railroad Company, and Mansfield and Sandusky Railroad Company, 60 miles of which is new road, and to re-lay 20 miles on the last mentioned road.

Proposals will be received until May 15, addressed (under seal) to me, at this place.

Proposals are invited for cash on delivery, and also for 7 per cent. bonds, payable in New York or Boston. Delivery may be made at Oswego, Albany, or New York, or at Portsmouth, on the Ohio river, Montreal, Canada, or at Sandusky city. American Iron would be prefered, except good English. Parties proposing, will please name the place preferred for delivery. Delivery to commence as early as June 1st, and complete as early as October 1st, if practicable.

B. HIGGINS, Superintendent, etc.

Sandusky City, Ohio, March 15, 1849.

2m.13

### Railroad Iron.

THE Undersigned offer for sale 3000 Tons Railroad
Iron at a fixed price, to be made of any required
ordinary section, and of approved stamp.
They are generally prepared to contract for the delivery of Railroad Iron, Pig, Bar and Sheet Iron—or
to take orders for the same—all of favorite brands, and
on the usual terms.

ILLIUS & MAKIN.

March 29, 1849.

ST. LAWRENCE & ATLANTIC RAILROAD COMPANY.

Notice is hereby given that the

Trains run twice per day between al and St. Hyacinthe, leaving each terminus al

Montreal and St. Hyacinthe, leaving each terminus alternately, until further notice.

The first train starts from St. Hyacinthe at 7 o'clock a.m., reaching Montreal at 8½ a.m., leaving Montreal at 2 p.m., and reaching St. Hyacinthe at 3½ p.m.

The second train leaves Montreal at 9 o'clock, a.m., reaching St. Hyacinthe at 10½ a.m., leaving St. Hyacinthe at 4 p.m., reaches Montreal at 5½ p.m.

THOMAS STEERS, Secretary.

Extension of the Baltimore & Ohio Railroad.

CONTRACTORS FOR GRADUATION AND MASONRY.

PROPOSALS are invited for the Graduation and Masonry of the following described sections of this road—the sections averaging a mile in length—commencing in the town of Cumberland; Sections 1, 2, 6, 7, 8 and 10, will be let, embracing considerable rock work along the Potomac river bluffs, and the masonry of several bridges on Section st. Also all the sections from 30 to 45 inclusive, (excepting sections 43 and 44) beginning 28 miles from Cumberland, about a mile below the mouth of Savage river, and terminating at the summit of the mountain. The work upon these sections is heavy, containing much rock excavation and 2 tunnels, each about 600 feet in length, and a stone bridge of considerable size. The whole number of sections now to be let is 20. In the course of the spring and summer upwards of 30 more heavy sections will be put under contract between Cumberland and Three Forks Creek. The remaining sections between those points, and other work beyond the latter, will be ready by the 25th of March current.—They will be distributed from the company's offices in Baltimore, Frederick, Harper's Ferry, Cumberland and Washington. The proposals will be directed to the undersigned, at No. 23 Hanover street, Baltimore, and will be received until Saturday, the 28th of April, inclusive. Before making bids the line should be thoroughly examined, and the resident engineers will be in attendance thereon to give information. The moots satisfactory testimonials will be demanded. The payments will be made in cash, reserving the usual 20 per cent until the completion of the contract. The moot energetic prosecution of the work will be required. By order of the President and Directors.

BENJ. H. LATROBE, Chief Engineer.

Baltimore, March 14, 1849

5t.12

In our paper of March 10th, we copied a most valuable article from the Philadelphia Commercial List upon the " Iron Manufacture," but were comcommerce of the country,-more especially Penn-required for any terms other than cash in hand. sylvania,—than can be found any where else in the we learn that the rails for the Richmond & Don-same space. The great industrial interests of the ville R. R., Va., are being made at Richmond, under We wish Mr. Ewing could induce Colonel Childs which is the lowest price at which American rails to take a leading place in the Home Department, have been made. Whether our large manufactur-



INCORPORATED BY ACT OF PARLIAMENT.

NOTICE is hereby given, that an ASSESSMENT OF ONE SHILLING AND THREE PENCE PER SHARE has been levied on the STOCK OF THE UPPER CANADA MINING COMPANY—one half thereof, or Seven Pence Halfpenny per share, being payable, at the office of the Company, in Hamilton, or to Messrs. W. & J. Currin, Agents, Wall St. New York, on the First Day of April next, and the other half on the First day of July next ensuing. By order,

J. D. Bronderst. cretary U. C. M. C.

Hamilton, 24th February, 1849.

Price of Railroad Iron. The quotation price of merchant bar iron in Liverpool, December 22, 1848, was £4 15s. per ton, and a small quantity of rails were sold for this market at that time at £5 per ton, free on board at Cardiff. The ordinary range of freights was then about 20s. per ton, so that ordinary railway bars at that time could be contracted for at a trifle less than \$40 per ton, including all charges, deliverable in New York.

At the time of the sailing of the Canady, Murch pelled to postpone the publication of a portion of it 10th, rails were quoted at £6 to £6 5s. in Wales, till our issue of the 17th, in which number the pro- cash. Orders given this week with each in hand. per credit might not appear to those who had not or its equivalent, on delivery of the iron, are taken read the previous number. We feel more than or- for limited amounts by responsible parties at 45 15s. dinary pleasure in alluding to this matter, from the free on board at Wales. At these prices rails can opportunity it furnishes of calling attention to the be laid down in New York for \$50 per ton, in quanmerit of that paper. C. G. CHILDS, Esq., the ac- titles of 2,000 tons or less; large contracts are decomplished Editor of the Commercial List, presents clined at this time. Orders requiring time to mahis readers every week agreater amount of valuable ture, are taken sparingly, scarcely exceeding in any statistical information touching the business and case more than 2,00 Otons; and a further price is

country have no abler or more faithful advocate. a contract made some months since, at \$55 per ton,

turers will take contracts at these rates at the present vinced of the ultimate success of this grand enter time, may be problematical. In January contracts at \$55 were made with them, but the recent advance in pig iron may require a further advance upon rails. The news by the Canada was not regarded as quite so favorable for a rapid advance in iron, as was generally expected among our iron dealers.

These facts and suggestions may aid several of our friends who are in the market for iron, and who desired from us some opinion as to the probable price at which contracts could be made. We trust they will keep in view the suggestions in our last paper.

### A New Railroad in Indiana.

A survey and estimate have just been completed for a railroad from Crawfordsville to Lafayette, a distance of 261 miles, and the line is to be put under contract in the month of May next.

Crawfordsville is about 45 miles to the north-we of Indianapolis, the Capitol of the State, and is the seat of Wabash College. Lafayette is at the head of steamboat navigation on the Wabash river, 310 miles above its junction with the Ohio.

### Ocean Steam Navigation.

The new steamers, Atlantic and Pacific, for Collins's Liverpool Line, are being rapidly finished. Two others of similar construction, and of the same size, one to be called the Arctic and the other the Adriatic are in progress.

It is known that two of the Cunard steamers are sold to one of the German States, and that two new ones are to take their places in the line, one to be called the Asia and the other the Africa.

There has been a strong impression on the minds of the people of both the American and English governments, that the best constructed boats must continue to come from the Clyde, and that Napier's engines will continue to hold their claims to superiority. We shall soon have some satisfactory means of comparing with them the workmanship of our own mechanics in these new steamers.

### A Railroad Coming.

About 100 men are employed on the continuation of the Cincinnati and Sandusky Railroad, this side of Sandusky, with the intention of bringing it to Huron the coming season.

The Boston company which owns the Mad river road also owns the old Ohio railroad which extends from Manhattan to Coneaut, and was once partly buil by the Ohio railroad company. They are com-ing to Huron to get deeper water than 1s found in Sandusky Bay. They will soon be in Cleveland, we venture to say by another spring .- Cleveland

The Railroad Convention at Brattleboro' on Wednesday, was well attended, considering the storm. A good spirit prevailed; and a resolution passed, appointing a committee to confer with other railroad corporations, and with individuals, in regard to the raising of the stock necessary to ensure the speedy completion of the Vermont Valley road, extending from Brattleboro' to Bellows Falis.

We are gratified to state, says the Jackson. (Tenn.) Whig of the 23d ult. that the party on division No. 4, of the Mobile and Ohio railroad survey, under the charge of Mr. H. S. Kean and others, have reached the suburbs of our city, in the survey of the route of the contemplated railroad. This party commenced their operations at Columbus, and with the practicability of the road over the country may bring the greatest amount of substantial bene-they have examined. We are more and more con- fit to the whole profession: they have examined.

prise.-Alabama Planter.

### From the Glasgow Practical Mechanics' Journal. Phenomenon attending the Discharge of High-Pressure Steam

The phenomenon which Mr. Vincent Bird has The phenomenon which Mr. Vincent Bird has observed on lifting the safety-valve, is brobably caused by a current of electricity passing from the steam to the metallic valve. It a conductor is brought into the vicinity of a cylinder of glass, which has been acted upon by friction, a lambent light will be seen to pass between the two. Steam, like excited glass, in passing from an orifice, is in a highly still a positively electric state, whilst the boiler. seen to pass between the two. Steam, like excited glass, in passing from an orifice, is in a highly etoile, or positively electric state, whilst the boiler is pinceau, or negative. If Mr. Bird will take the trouble to insulate himself, holding a conducting-rod in the discharge of steam, he will find that an electric spark will result from touching another per-

electric spark will result from touching another per-son standing on the ground.

It has not yet been decided whether the electricity of steam is caused by evaporation, or by chemical action. However, it is a fact beyond all doubt, that electricity is given off in immense quantities during evaporation. Whether I am right or wrong, it is evaporation. Whether I am right or wrong, it is my presumption, as to the origin of the liget observed by your correspondent, he is, at any rate, entitled to great credit for bringing the matter forward for the investigation of the public.

R. Smith.

Blackford, Dec. 1, 1848.

### New York Institution of Civil Engineers.

We have just received a published copy of the transactions of the New York Institution of Civil Engineers, organized at Albany, on the 5th of January last. This number contains the Address of the Trustees, the act of the Legislature authorising the Institution, the constitution and by-laws adopted, the proceedings of the association, and a list of its highly creditable to the taste and skill of all parties concerned, and its typographical execution is a model for all similar works.

The Institution was organized by the choice of CHARLES B. STUART, Esq., Surveyor General of

New York, as President. EDWARD W. SERRELL, ALEXANDER CAMPBELL, CHARLES W. WENTZ, and CHARLES R. BABBITT, s Vice Presidents, and

### FRANCIS A. UTTER, Actuary.

Below we give the Address of the Trustees which expresses with clearness, elegance and precision, the views which let to the foundation of the Institution, which will meet a hearty and full response from all persons at all conversant with the duties and responsibilities of the engineering profession. The physical sciences are daily becoming more and more attractive and important in the progress of the age. The profession of the engineer now offers to the man of genius and talent a more certain path to wealth and renown than any of the other learned professions. Let the spirit of this address be carried into practice, and a new impulse will be given to the cause of public improvements throughout the whole country.

By the 6th article of the Constitution there is to be an annual meeting of the Institution on the third Wednesday of January, and quarterly meetings on the third Wednesdays of April, July and October in each year.

Perhaps some arrangements to give more extended circulation to the papers of the Institution might be devised, than the issuing of them separately in the expensive form of this specimen number. An effort should be made to give the greatest possible we are pleased to hear that they are well satisfied scope to the movement of the association, so that it

### To the Civil Engineers of the State of New York:

The undersigned, in compliance with a resolution adopted at a meeting of the members of the New York State Institution of Civil Engineers, held at the Capitol in the city of Albany, on the fifth day of January last, beg leave to call your attention to the proceedings of the conventions held in the cities of New York and Albany and to the conventions act New York and Albany, and to the constitution, act of incorporation, regulations and by-laws, of the Institution, published in this number, and request your aid and co-operation in establishing an Association of Civil Engineers. upon a permanent basis, in this State.

An attempt to enlarge in this address upon the benefits resulting from such an association, in the advancement of professional knowledge, and the promotion of that friendly intercourse so desirable among men engaged or interested in like professions, will not be deemed necessary; the advantages of the content of the profession will not be deemed necessary; the advantages of the content of the profession o organization must be apparent; the collection of drawings, models, manuscripts and publications, would enable each member of the profession to would enable each member of the profession to profit by the experience of all the others, and an immense amount of knowledge, to be acquired only by experiment and observation, could thus be communicated. The published proceedings of the Institution, diffusing knowledge amongst its members, would not be altogether uninteresting to the public at large, which in a remote degree is affected by the labors of the Engineer; and it is confidently believed that with unity of purpose, and reasonable exertion on the part of members, results so desirable may be obtained, and an Institution established which shall be alike creditable to the profession and the State.

At the regular meetings of the Institution discussions of practical questions may be had, and Engi-

sions of practical questions may be had, and Engi-neers from various parts of the State participating in them, the experience of all would be embodied the proceedings of the association, and a list of its in the minutes. Plans and specifications of structures, built or being built, deposited at the rooms of the listitution, would soon swell to volumes, and in a comparatively short period, these volumes would contain drawings of the most important structures and similar works. would contain drawings of the most important structures in use in the state. The Engineer might accompany his donations with a narrative of the difficulties which he encountered; the methods by which success was ensured, and the cost of the structure. A fountain of practical information, too voluminous for publication, would thus be acquired, from which every member of the Institution might draw on the experience of others.

The records of American inventions and improvements against the structure of the sure of the structure o

ments unpatented, may be found on scraps af paper, in drawings and models at the shops of machinists, or in the memoranda of Engineers. The tests of the in drawings and models at the shops of machinists, or in the memoranda of Engineers. The tests of the strength and durability of materials, the cost of important structures, and the whole history of professional experience, acquired by years of labor, and not unfrequently at an expense to the public of large sums of money, fades with the expiring memory of the individual, and dies to be re-acquired by like expenditures. expenditures.

In the State of New York a sum exceeding eighty millions of dollars, is already invested in works designed for the transit of property alone. This vast sum was originally hazarded upon the plans and sum was originally nazarded upon the plans and calculations of Civil Engineers, and its disbursement was made under their immediate superintendence. During the next quarter of a century not less than two hundred millions will have been invested in works of similar character within our borders. But with a superabundance of capital, and a denser population, more difficult and more expensive works will be confided to the Engineer, and upon his professional intelligence largely depends a successful result.

By every motive therefore of personal interest, by every impulse of patriotic or professional pride, the Engineer is impelled to a vigorous effort, to elevate the standari of professional excellence. It now remains for each and every Civil Engineer in this great State to decide for himself, whether the Institution now formed is to effect a consummation so desirable.

CHARLES B. STUART, EDWARD W. SERREL. ALEXANDER CAMPBEL, CHARLES W. WENTZ CHARLES R. RABBITT,

Trustees.

g S fided T in the me zee to accommodate the thousand the

Virginia.

Last week we gave some extracts from a speech delivered by Mr. Laidley, in the Virginia House of Delegates, in favor of a bill giving legislative aid to works of internal improvement. We now quote from a speech of Mr. Burwell, of Bedford, upon the same general subject. They are interesting as showing the reasons that have induced her to embark in the work of railways; and the influence that these works are extending in the states that have constructed them :-

"As a party to a compact to which she has deliberately set her seal, Virginia has agreed that the ratio in which power shall be apportioned amongst the several parties in this compact, shall be based upon comparative population, and upon a specific though qualified right of property recognized, and guaranteed to the southern members of the confederations are the statements. racy. Since therefore she has subscribed to the terms of this compact, since she has agreed that the representation of her interests shall be referred to the relative number of votes in the federal legislature, the measure of her influence and power must be in the direct ratio of her population, and in the ratio of her population, and in the ratio of her property modified by the constitutional restriction referred to. In this view patriotism and policy alike dictate that the surest way to protect her rights and promote her influence under our present constitutional proposed will be to secure these elements. and promote her influence under our present consti-tutional compact, will be, to secure those elements of power which are recognized by that compact. When we look around we find that there is a fear-ful disparity between the power of other members of the confederacy and of this common wealth. We find that the social and legislative energy of other states has offered to enterprise and capital such in-ducements in universal education, universal em-ployment in the comfort and independence which ployment, in the comfort and independence which modern improvements bestow, that population and wealth have increased in a manner scarcely paralleled in the history of our race; and we cannot conceal the truth, that this remarkable disparaty in the rate of increase is rapidly affecting the comparative influence of the more and less prosperous members of the confederacy. Of this, a reference to the original representation of the several states, traced the original representation of the several states, traced the original representation of the several states. through the succeeding terms of re-appointment, will afford conclusive evidence:

Virginia	Whole No. Federa
representation.	representation.
179019	106
1800	142
	183
	213
183415	230

From this table it will be seen that in 1790, Virginia was the first state in representative influence. She now ranks the fourth. She then possessed one fifth of the whole power of the confederacy, this has declined under successive reductions to one fifteenth. The other states of the Union have increased within ten years preceding 1840, 2. 19 per cent. It is therefore plain, that unless she shall encourage immigration, and prevent the emigration of her citizens to other states by furnishing facilities similar to those which exist elsewhere, that in 1860, when, according to the estimate of staticians, the popula-tion of the United States will have reached thirty-one and a half millions, Virginia, with her present one and a half millions, Virginia, with her present rate of increase and the present ratio of representation, will have about one twenty-fourth part of the influence of the tederal government, whilst, with the ratio of representation raised to one hundred thousand, the relative measure of her federal influence will be about one thirtieth! Can any one require a more conclusive illustration of the truth, that the several states which compose this Union at the several states which compose this Union more particular and palpable evidence of the decline of the influence of Virginia be required, it may be found by reference to another infallible indication. During the early history of our country, the highest offices were constantly filled by the statesmen of Virginia, and no administration was stable, that did not respect her opinions and principles. Yet, in her political position, those who have the right in her political position, those who have the right in the political position, those who have the right in the political position, those who have the right in the political position, those who have the right in the political position, those who have the right in the political position, those who have the right in the political position, those who have the right in the political position, those who have the right in the political position, those who have the right in the political position, those who have the right in the political position, those who have the right in the political position is usefulness torpor the mineral and washer there is usefulness torpor the mineral and metal-like wealth of their mountains—a wealth richer in the reward which its usefulness, more precious in the reward which its employment bestows upon virtuous industry, than all the bright and vicious treasure of Golconda or position and principles. Yet, improvement, these states have added to their numbers and gold washers they precious in the reward which its employment bestows upon virtuous industry, than all the bright and vicious treasure of Golconda or position and the Gamanil, and in all discovered deposition of the Ramla, the Dys, the Goncka, of the Remissal they yielded more gold than those of Siberia. Pushere is wealth of their mountains—a wealth richer in the reward which its usefulness, more precious in the reward which its u are advancing in an unequal ratio in the acquisi-

to control her political action, have not received the poor compliment of a nomination for either of the offices of president or vice-president, whilst the great states of New York and Pennsylvania are openly regarded as the arbiters of our political des-tiny, and no political movement is undertaken which does not conciliate their favor.

"Nor have these great states been satisfied with political power, based upon numbers alone. New York has obtained the control of the whole fisca" xork has obtained the control of the whole fiscal system of the government. She regulates the value of the currency of every state, and no financial transaction can be accomplished without her sanction or agency. Her brokers fix the premium upon the national stock; they establish the value of all local currency—her banks fatten upon the federal credit —her agents purchase our staples—her ships trans-port them across the ocean—her merchants supply our merchandise; nothing is done without her

agency.
"It is necessary to do more than to remind you of "It is necessary to do more than to remind you of the vast mining and manufacturing interest of Penn-sylvania, which is looked to with so much solicitude in the political conflicts of the country? Together with other northern states interested in the same elements of national prosperity, she dictates the whole system of indirect taxation by the federal government, and no rate of duties upon coal, iron, or upon imports, unacceptable to the great state of Pennsylvania, can long resist the power which she wields in the halls of national legislation and at the whether the dails of national registation and at the ballot box. Thus, manufactures, mining and commerce are her "peculiar interests," and she is entitled to twenty-four members of congress and of the

tled to twenty-four members of congress and of the electoral college, or to more than one ninth of the whole political power of the federal government.

"If we turn to another power, great, growing, destined to rival, possibly to overshadow those to which we have referred, we behold the Northwest, standing in compact array awaiting with impatience the formalities of the census, to assume the administrative policy of the public lands, and to engage the federal government in a system of internal improvement, which will open its rivers, protect its lake commerce, and construct a railroad to the Pacifie.

"Whilst Virginia, like some alchymist of old, has been endeavoring to subtract substancial good

has been endeavoring to subtract substancial good from impalpable abstractions, from the wilderness an empire has sprung into existence, and where within the knowledge of the present generation, nothing was known but military stations and Indi-an agencies, populous cities now gem the borders of the beautiful lakes, commerce spreads her sails, and

the beautiful takes, commerce spreads her sails, and
the whole land teems with agricultural productions.
"I have thus endeavored to show that the great
interests which must develope themselves to the progress of any prosperous nation, have been secured
and controlled by those members of the American confederacy, who have increased most rapidly in wealth and numbers, and have thus acquired, accor-ding to constitutional provisions, a preponderant in-fluence in the administration of the common government. Indeed, when we philosophise upon the causes which have given to the states referred to an influence which protects their "peculiar interests," we feel more disposed to admire than to complain; for these results cannot be attributed to the natura. advantages which some states possess over others But upon examining the domestic policy of those states, the true causes will be discovered; it will be then seen, that each one of the states remarkable for its prosperity and power, is remarkable for the ener-gy of its citizens and for the wise liberality of its legislation; each has its provision for popular edu-cation; each an enlarged plan of "internal com-merce;" each has appropriated the common means towards making every common resource available.

They have wooed to their ports the commerce of the world; they have tamed to its task the boundless power of their mountain streams, and made them minister to the industrial energies of their people— they have traced canals, laid down roads, and awa-kened from its useless torpor the mineral and metal-lic wealth of their mountains—a wealth richer in Chesapeake and Ohio Canal.

The Alexandria Gazette states that the bill gu anteeing the bonds of the Chesapeake and Ohio canal company, for the sum of \$200,000, has passed both branches of the Virginia Legislature and become a law. This will be an important aid in fur-therance of the purposes of the canal.

The following important amendment to the bill, was introduced, during it passage, and is a part of

the law:
And provided further, That no such guarantee shall be made by the treasurer until the board of public works shall be satisfied that the Chesapeake public works shall be satisfied that the Chesapeake and Ohio canal company have paid, or arranged to pay, out of any money or assets which they now have, or hereafter may have, applicable to such a purpose, or arranged to the best of their ability, all debts due to, and to comply with all contracts made with, the Alexandria canal company, and shall grant, upon fair and reasonable terms, to the said company (which shall have power to take hold and enjoy the same) such reasonable proportion of water rights, and privileges required by the said company, which may be in the power of the Chesapeake and Ohio canal company to afford, without affecting previous contracts, or which may not injure the navigation of the said Chesapeake and Ohio canal.

Cleveland, Columbus and Cincinnati Railroad.—
We are gratified to learn by the Cleveland Herald, that the work on this important road is progressing rapidly. The engines and cars are contracted for, and the heavy T rail is to be used. The Plain-Dealer says that forty miles out of Cleveland will be completed by the 1st of December next.

The building of the Peterboro' and Shirley railroad was let out on last Wednesday week, at West Townsend, to Levi W. and Henry Woods & Co. The work is to be immediately commenced, and carried forward with despatch.

The Alexandria and Gordonsville Railroad, recently chartered by the legislature of Virginia, is virtually a branch of the Louisa railroad, which latter is steadily advancing westwardly towards the Blue Ridge, and will penetrate the great valley near Staunton. The capital stock of this company is \$900,000, of which the State has subscribed three fifths, or \$540,000. Of the remaining \$360,000, the corporation and citizens of Alexandria have taken \$145,500—leaving \$214,500 to be raised in the flourishing counties of Fairfax, Prince William, Fauquier, Rappahannock, Culpepper, Madison, Orange and Greene. The lists are not all returned, but it is believed considerably more than half of the amount is already secured.—Balt. Am.

The legislature of Ohio has incorporated the Mississippi and Ohio railroad company. The provisions of the act are said to be in accordance with the

is already secured.—Balt. Am.

The legislature of Ohio has incorporated the Mississippi and Ohio railroad company. The provisions of the act are said to be in accordance with the memorial signed by 3,000 citizens of Cincinnati, adopting the provisions of the charter granted by the State of Indiana, as those of the charter from the State of Ohio, in which form it passed. The law provides for the subscription on the part of Cincinnati, of the sum of one million of dollars to the capital stock of the comoany—the question to be submitted to the qualified voters of the city at a special election, to be ordered by the city council after ten days' notice.—Bid.

According to advices from St. Petersburg of February 1, in the Belgian papers, a rival to the miraculous regions of California has already been found. A Col. Kavelovski, of that capital, who for a considerable time had superintended the workings of extensive gold mines in Sibera, and in the course of mineralogical pursuits had latterly been exploring the interior of Africa, has discovered on the right bank of the Sornal, at one day's journey from Cassin, many considerable hills or mountains of auriferous sands. On the washing of these sands he found they yielded more gold than those of Siberia. Pushing his researches further he examined the shores.

The cost of Locometion in India.

The cost of every British soldier as he stands on parade in the Punjaub is £150 per head—and, of course, as much more to replace him if he is killed or disabled. Sir Charles Napier, in his recently published "Reflections on Indian Warfare," states that the usual allowance on an Indian line of march is one camel to two fighting men. We march is one camel to two fighting men. We will omit all the other items of elephants, bullocks, horses and camp followers, swelling the unweildy mass which follows in the rear of our armies, but mass which follows in the rear of our armies, but the additional expenses must be enormous. We will suppose that we have 30,000 men; these will require 15,000 camels—averaging £20 each, and we have a locomotive stock which has cost us 300,000, and will probably all be destroyed, and have to be replaced within six months, at enhanced prices, to say nothing of the loss of baggage and stores, consequent on want of means of transit. Camels move at the rate of 24 miles per hour and if they consequent on want of means of transit. Camels move at the rate of 24 miles per hour, and if they did 300 miles in a month, one day with another, we suspect it would be found more than the ordinary average. Look at the time our forces have been on the march from their cantonments to the frontier, in the present war, and whatever may be the difficul-ties in constructing an Indian railway, can any one for a moment doubt that the outlay may not be saved over and over again in wear and tear in the con-veyance of troops, without considering the amazing collateral advantages which must flow from their use in developing the resources of the country.— Surely the directors or their servants must be strangely blind to their own interests. There can be no reason given why India should not reap the advan-tages of good roads and rapid internal commuication the same as any other country.-Railway Chro

Railways in England.

Our English exchanges, received by the Canada, are principally occupied with accounts of the halfyearly meetings of the leading railway companies in the United Kingdom. These accounts exhibit ces, we believe the law will regard the parties in fully the workings of the spirit of disappointed rivalry, with the impatient clamor of dissatisfied all the conspiring Directors will have forfeited their speculators. yearly meetings of the leading railway companies

The Eastern Counties railway meeting is thus described in Herapath's Journal:

Of all the bear garden scenes we ever witnessed, the Eastern Counties meeting on Wednesday bore away the palm. What a difference between the reception the Directors had that day and six months before! Scarcely had the first Director made his appearance before hissings, yells, and all sorts of symptoms of disapprobation assailed his ears, and continued until after the Directors had taken their seats. Mr. Hudson, who was expected, except by a few who had heard of his resignation, was not a few who had heard of his resignation, was not there, and perhaps, fortunate it was for him that he was not, as from the temper of the meeting, one of the largest we ever saw, we are not sure he would have been safe from personal violence. Mr. Waddington, the deputy-chairman, who took the chair, could with difficulty obtain permissisn to read a letter from Mr. Hudson to him, and his reply. The purport of Mr. Hudson's letter was that as he differed from his cellsonyes in the steam how cure. ter from Mr. Hudson to him, and his reply. The purport of Mr. Hudson's letter was that as he differed from his colleagues in the steam-boat question, he did not intend to be at the meeting, and placed his resignation in Mr Waddington's hands. The reading of the letter was interrupted with loud laughter, hootings, &c. Mr. Waddington's reply called upon Mr. Hudson to attend or to send in his resignation unconditionally. Days had elapsed since it was written and no reply received the an

In reference to the charges against Mr. Hudson. the following statement from the same Journal may suffice :

MR. HUDSON AND THE CHARGES AGAINST HIM.

The prevailing topic in the city is still the charge against Mr Hudson and the anticipations of the report of the Committee of Inquiry, which meet next Wednesday.

Amidst the clamor that has been raised upon this Amidst the clamor that has been raised upon this subject, the merits of the case have been lost sight of. As far as we underetand the question, it appears to be a charge of selling 2,800 (not as stated in our last, 2,1000) £15 shares at a considerable excess above the market value of the company of which Mr. Hudson was Chairman. Mr. Hudson replies that the price was fixed by Mr. Plews, one of his brother Directors. If that be the whole state of the case, it may be an improper, but it is not an illegal, act, or one of which the law would take cognizance. If the shares were Mr. Hudson's own property, he may undoubtedly make as much of property, he may undoubtedly make as much of them as he c.n; but a question arises whether it was proper and right for him, as Chairmau, to ac-cept more from the Company than a fair market price. According to standard commercial practice he may receive £200 or £300 for £100 worth of property from any other party, if he can get a man weak enough to give it; but it would not be tolerated from his own Company

s own Company. This question disposed of, the next that arises is whether Mr. Hudson was an agent or trustee for the Company in the purchase of these shares. If he was, his act then becomes very different in charging more for the shares than they cost, no matter whether Mr. Plews, or even the Board as a body, fixed the price; but then the other Directors are

The statement of the affairs of this company shows an expenditure equal to £9,282 365 sterling, or more than \$45,000,000; and the report of the Directors embraced the plan of consolidating the Northern and Eastern railway and the Norfolk railway with the Eastern Counties railway, making an aggregate capital of £12,556 820 sterling, or something over \$50,000,000.

After a most angry debate, and the appointment of a committee of investigation, a motion was made by Mr. Fryer that the bill "for the amalgamation with the Norfolk companies, now in the House of Commons, be withdrawn,"-a debate occurred on the motion, and a poll was demanded, and the motion was carried by a vote of 7,949 to 2,330. or a majority of 5,609.

Mr. Sergeant Gazelee inquired whether after this vote the Directors considered they could carry on the business of the Company with credit to themselves and satisfaction to the Proprietors, or whether they would place their seats at the disposal of the

Shareholders?

The Chairman-In answer to the learned Sergeant, I can only say for mysell—I cannot answer for my colleagues, for no Board meeting has been held on the subject—that is not my intention to reresignation unconditionally. Days had elapsed since it was written, and no reply received, the announcement of which was met by loud expressions of derision and cries of "Tnrn'em all out!" The Chairman said that Mr. Roney, the Secretary, had been constantly at the telegraph, but no communication had been received; the telegraph wires were out of order, which was responded to again by loud derisive laughter. Presently after it was announced that a message had been received from Mr. Hudson by telegraph, saying "He would write to-morrow," which called forth another loud peal of indignation.

At length the meeting sobered down a little, and the business was proceeded with so far as to hear the report read and the Chairman's speech, which was a lengthy one, and repeatedly cheered. Scarcely mined to take such a course. I think it is well known.

had he sat down before a Committee of Inquiry was to you that I have for considerable period given moved for amidst cries of "Turn 'em all out!" One much of my time to the management of the traffic gentlemen made a most vehement speech, in which he applied language of the strongest description. mittee may require explanation. It is for this reason that I shall attend at the Eastern Counties Board (as I have previously done) till the Committee make their report, for I think your interests might suffer if I retired sooner.—(Cheers.)

Herapath's Journal attempts to point out some remedies for the evils under which railway Com-

panies are suffering : What is wanted in railways are the following

things—
1st. That the Sharcholders should have much more power than they have in the election of good Directors, and the dismissal of obnoxious and use-

2d. That railway accounts should be kept on one uniform and simple system, so that when a man understands one he may understand any.

3d. That the accounts, and all documents conec-

and an accounts, and an accounts concerted with them should be open to the inspection and examination of the Shareholders at proper times.

4th. That the capital accounts should be closed, except under very special circumstances, within 2 years after the railway is gened for public traffic.

4th. That all contracts should be let by public traffic.

4th. That all contracts should be let by public tender, and the lowest be accepted proper security can be given, or if not, the lowest that can have good security should be preferred.

6th. A careful, proper, and impartial audit. If these things were done railway property would immediately rise in value, even if they paid less dividends than they do. Had Shareholders more power of election and dismissal, we should have a better class of men than are in some of the directions. Indeed none but men of high and honorable theracter would be tolerated for any time. We character would be tolerated for any time. We should besides, have men of business to administer the affairs of railways, not drones who go in for the pay—men who make Directorships a profession and a livelihood, or who get in to job, regardless of the interests of the concern, provided they can fill their own pockets. On this subject we could say a great own pockets. On the deal if we had room.

The subject of letting contracts by public tender, we have likewise discussed over and over. The system of private letting is one of the greatest temtations to fraud and plunder that can well be contrived. Large fortunes have been made entirely from plunder drawn from this system. It would fill our Journal to repeat one half we have heard on good authority, upon this subject.

### Patent Railway Axles

Judicial Committee of the Privy Council. (Before Lord Langdale Lord Brougham, Dr. Lush-

(Before Lord Langdale Lord Brougham, Dr. Lushington and Mr. Pemberton Leigh.)

Petition of Hardy and others for the Extension of Letters Patent.

Mr. Hill (with whom were Mr. Webster and Mr. Phipson) said he appeared on behalf of Mr. Hardy, the patentee, and Messrs. Geach & Walker, who had become, by assignment, the proprietors to pray for an extension of the patent, which was for an improvement in the manufacture of ralway ayles. for an extension of the patent, which was for an improvement in the manufacture of ralway axles. The patent was obtained in April, 1835, and Mr. Hardy, with limited means, attempted to carry it out, but after losing all his property in the attempt, assigned it, a few years ago, to Messrs. Geach & Walker. The invention consisted in fashioning assigned it, a few years ago, to messis. Ceach walker. The invention consisted in fashioning pieces of iron in a rolling-mill, so that, when combined, a perfectly cylindrical form was effected. In the old process the iron was repeatedly cooled and heated during the welding; and the result was that the iron became very much deteriorated in character, and was rendered brittle, while, by the patented method the iron preserved its fibrous character and consequently its tenacity. In illustration of the method the iron preserved its fibrous character and consequently its tenacity. In illustration of the great superiority of the patent axles, two of them were exhibited; one had sustained the shock of an express train, weighing upwards of one hundred tons, and moving at the speed of 60 miles an hour; the other had been struck by a train, in a similar manner, on the Eastern Counties. Although both these axles were considerably bent by the immense force of the blows to which they had been subjected, the skin of the iron, as it was termed, was not touched, and they did not exhibit the slightest crack. The learned counsel then referred to the great losses that had been sustained by the manufacturers during the past ten years, and contended that they were entitled, now that the railway companies and the public were beginning to appreciate the value of the invention, to an extension of the patent, in order to reimburse themselves and secure that fair remuneration to which they were entitled.

or reimburse themselves and secure that lair remuneration to which they were entitled.

Mr. R. Stephenson, M.P., was examined in support of the petition. He isaid he was consulting
engineer to nearly all the narrow-gauge lines—that
a good many hundred miles of railway were under
his superintendence, including the London and
North-Western and the North Midland. His attention was first called to the patent axles shortly after
the opening of the North Midland in 1841. He had
subjected a great many axles, of various manufacthe opening of the North Middland in 1841. He had subjected a great many axles, of various manufac-tures, to some very severe trials—the patent axles among others—by twisting them and letting heavy weights fall upon them, the aim of the experiments being to subject them to the same shocks and strains that they would be liable to in case of accident. He made these experiments in consequence of a serious accident that took place on the North Midland, and was satisfied by them of the great superiority of the patent axles. Witness then described the old and the patent process of manufacture, the former rendering the iron crystalline in its structure and exceedingly brittle, while by the latter the fibrous character of the iron was preserved. by which it was that they would be liable to in case of accident. reacter of the iron was preserved, by which it was rendered extremely tenacious. A section of a pat-ent axle was put into the witness' hand, which, he said, clearly indicated the fibrous structure of the mass to the very centre of the axle. By the old method the outside, and to some depth, was fibrous, method the outside, and to some depth, was fibrous, and the interior crystalline. It was hardly possible to appreciate the value of the invention—in the safety it conferred upon life and property—in the prevention of accidents upon railways. He knew of no other axle at all equal to it. After the occurrence of the accident to which he had referred, he broke upwards of fifty of the axles of the old manufactures, and was astontshed to find that they were uniformly crystalline in their texture, with one or two exceptions. They were of course all exceedingly brittle, so much so that he ordered them to be taken off the line as quickly as possible. The patent axles are now extensively, but he could not say exclusively used on the North Midland The cost of manufacture might be somewhat more than the old exclusively used on the North Midland The cost of manufacture might be somewhat more than the old method; and as the patent axles were sold at a lower price than the old manufactures, the proprietors must have obtained much less profit. The price, however, was comparatively no object. He had recommended that the patent axles should be adopted in all the contracts he had had for the last three years. M his advice was followed there ought to be no other axles used. With the exception of two or three, all the axles of the old manufacture that he tested, amounting to fifty or sixty, were unsafe to use. An accident to a luggage train might entail one to a passenger train, by blocking up the line. 'The Low Moor and Bowling Company's axles always had a high stauding in the market, from the character of the iron, and they still stand high, putting out of question the principle of manufacture.

Lord Brougham and Lord Langdale expressed themselves perfectly satisfied with the evidence they

It was quite conclusive.

had heard. It was quite conclusive.

Mr. Hill would just ask a few questions of Mr.

M'Connell.—He (Mr. M'Connell) was superintendent of the locomotive department of the London & North-Western, and took part in some experiments that were made in 1843, upon axles. Before the patent axles came into use the Low Moor and Bowling Works axles were considered the best. The price of these axles was from 20s, to 25s, per cwt., increasing a little according to the sze. The price of Mr. Hardy's axles was now 18s, per cwt., also increasing according to weight. Before 1843 they were used to some extent, but in that year he was called upon to winces server as the content of the co

were used to some extent, but in that year he was called upon to witness some experiments at Wolverton, which quite established their character.

Mr. Hardy, the patentee, in reply to a question by Lord Brougham, stated that he had given the matter as much publicity as possible, but his means were limited. He found it extremely difficult to induce the railway companies even to test his axles. It was owing to the energy and enterprise of the presen proprietors that they had been tested, and hen so generally adopted. hen so generally adopted.

Mr. McConnell was recalled, at the request of Lord Brougham, and stated that he considered the patent axles much more suitable than the old manufacture. In consequence of the great strain and wear and tear, he considered it advisable to take them off every five to seven years, depending upon the quantity of work which each did. He believed nearly all the carriages in the southern division of the London and North-Western had got patent axles. There was not more than a tenth or a twelfth of the entire that had the old axles. He believed all, or nearly all, the Great Western carriages had got them; he could not speak positively with regard to other lines.

I foreign and domestic, has increased in a still greater ratio. Belonging generally to the same political party with those having control of the General Government, liberal appropriations were made for better day between they were required. Large appropriations were made for building custom-houses &c. Aided by the immense patronage of the general government, New York has been, for the last twenty years, the leading city on this continent, and the great centre of the commerce of the United States.

Philadelphia, on the contrary, has received no aid

Mr. Welsby, on behalf of the Attorney-General, having stated that he had no objection to urge to the prayer of the petition, the room was cleared, and on

our re-admission,

Lord Brougham said the judges had unanimously Lord Brougham said the judges had unanimously agreed to recommend to Her Majesty to grant an extension of the patent for five years, subject to certain conditions, viz: that Mr. Hardy, the patentee, should secure one half of the profits and that the proprietors should give an undertaking that the price of the axles should not be increased to the public, but that it should be regulated by and fall of the price of iron in the market. but that it should be regulated by the

Philadelphia and New York.

The number of new buildings erected annually in any place, appears to be the only way of ascertaining its actual growth. If this theory is correct, then we can show conclusively, that the growth of Philadelphia is much more rapid than that of the city of New York. It is well known than in Philacity of New York. It is well known than in Phila-delphia, the compactly built part of the city is divided into municipal districts—as the City proper, Northern Liberties, Kensington, Spring Garden, South Penn, Southwark, Moyamensing, &c., but all forming one city, the same as London, which in-cludes a number of districts besides the city proper. In New York, we include the whole of Manhattan

In Philadelphia, during the year 1848, the number of new buildings erected, according to the official returns from the different districts, were as follows:

City proper	buildings.
City proper	46
Spring Garden	46
Penn District	- 66
Kensington 456	66
Richmond	66
Southwark	46
Moyamensing223	66
West Philadelphia 84	66

.....2.585 buildings. Total ..

In addition to the permits granted above, it is known that in Spring Garden there were upwards of one hundred buildings erected without permits, the materials being deposited on lots instead of the streets. In Kensington about one hundred and fifty houses were built without permits; in Southwark and Moyamensing, about one hundred more, which would increase the total number to three thousand

In New York, according to the returns in the office of the City Inspector, the total number of new buildings erected in 1848, were, 1,191, viz.

Vards.	Buildings.	Wards.	Buildings.
	6		
2	23	11	117
3	45	12	83
4	30	13	25
5	33	14	22
6	40	15	87
7	58	16	185
	50		
9	102	18	92

Total number of buildings...1,191

After some witnesses had been examined relative of New York, that she has completely outstripped to the value of the plant and machinery, and the profit and loss account for the last four years,

Mr. M'Connell was recalled, at the request of foreign and domestic, has increased in a still greater

Philadelphia, on the contrary, has received no aid from the government, because she opposed its measures. No piers have been built in the Delaware river, between this city and the ocean—even those at Reedy Island, which were ceded to the National at Reedy Island, which were ceded to the National Government, on the express condition of heeping them in repair, have been suffered to rot, and are now useless. No lighthouses, save one on the Brandywine Shoals, (which was washed away,) have been erected to warn the tempest tossed mariner of his danger, and instances, unfortunately, are not uncommon, where vessels and cargoes have been lost for want of these beacons.

Recently, a change in her huainess has commen-

lost for want of these beacons.

Recently, a change in her business has commenmenced, and the departed glory of Philadelphia is fast returning. The recent developements of the inexhaustible resources of Pennsylvania in coal and iron are destined to bring back her trade, and to make Philadelphia the great manufacturing and producing city of the Union. Her population is increasing more rapidly than that of New York. The tennage employed in her Coal Trade, still in its infancy, is now one third greater than the total tonnage arriving at New York from foreign ports, and this trade is destined to increase rapidly, for coal is indispensible to the wants of man. Philadelphia possesses the shortest and best route to the West, and indispensible to the wants of man. Philadelphia possesses the shortest and best route to the West, and upon the completion of the Pennsylvania Railroad, the produce of the teeming West will pour into her lap. The provision trade of the Union will centre here, and the shortest and best route from New York to Cleveland, Ohio, will then be through Philadelphia. The completion of this work will place this city in her former position as the first city in the Union, in wealth in manufactures, and the arts, as she already is in population.—Phila. Com, List.

Pennsylvania

In the last number of the Philadelphia Commercial List, we find a very interesting report of the proceedings of the Philadelphia Board of Trade Some extracts from which we are happy to transfer to our journal:

The Board made an unsuccessful effort during the session of our State Legislature last year, to obtain the passage of a law authorising corporations of associated individuals for manufacturing purposes. ses; similar applications were also numerously presented from the citizens. It is well known that, presented from the citizens. It is well known that, in some branches of manulactures the capital required to carry them on successfully, is too great for individual enterprise. In several of our sister states, as Massachusetts, &c., companies have been chartered very advantageously to themselves and the public. This system has enabled the inhabitance of the state to build understand the state of the state of the state. tants of that state to build up towns and cities, and to become the most successful manufacturers in the Union; spreading wealth and prosperity over a smiling and thrifty community, exceeded by none in the United States: subjecting other states to be tributary to her unsurpassed prosperity, and increasing in an equal ratio the commerce of her commercial capitol. New York has recently, and wisely, passed similar laws. Pennsylvania. from her central position, her rich agricultural products, her proximity to the great West, the Lakes and the Ocean, added to her inexhaustible supplies of coal and iron: possesses advantages for manufacturing Philadelphia, prior to 1820, for nearly half a century, was the leading city of the Union, in population, wealth and commerce. Her canvass white-send every sea, and the flags of all nations were lisplayed in her port. About that period her commerce began to decline, and the completion of the Erie Canal gave so powerful an impetus to the trade islature, with every prospect of being successful. Bar and sheet. Pig and scrap. Castings & blooms. Nails &

The Pennsylvania Railroad, in the construction of which the board has taken a deep interest, is rapidly progressing, and by the 1st of next May, it is expected that the road will be open for travel from Harrisburg to Lewistown. From the strong interest awakened in Ohio, there is every probability that the road will be continued from Pittsburgh to Cincinnati, and ultimately to St. Louis,

The following statistical tables are of great interest, as showing the progress of the Iron and the Coal Trade.

THE IRON TRADS..

The supplies of Iron sent forward from the interior of this State, in 1847 and 1848, have been as fol-

Chesapeake and Delaware canal	90,713,098 50,733,674 29,205,120 7,347,400 2,564,108	5,536,410 109,227 3,071,040 4,229,705 1,672,780	*1,370,293 *1,338,415 1,485,120 7,119,600 1,672,785
Totals	178,563,600	14,619,162	12,986,213
1847.       Pig and scrap.         Route.       pounds.         Chesapeake and Delaware canal       79,593,539         Delaware canal, Bristol       46,558,206         Schuylkill navigation       15,963,480         Columbia and Reading railroads       14,778,510         Norristown railroad       7,902,720	Bar, boiler and sheet, pounds. 18,058,491 327,852 8,442,560 20,725,040 3,184,320	Castings & bloom pounds, 10,172,757 461,815 3,339,480 1,537,330 2,262,400	1,966,720 8,743,480

60,738,263 17,774,143 10,710,100 The following is a comparative statement of the amount of Foreign Iron imported at this port during

the last five years:	+1.74(19)(00)	CAMBER STORY	that seem in the little	THE PARTY OF
1844.	1845.	1846.	1847.	1848.
Railroad	2,797 10	73 14	0.0242	383 13
Rolled bar	2,433 03	2.244 17	2.736 01	4.124 01
Sheet, rod and hoop 587 05	197 06	499 06	1,686 12	1.782 16
Pig 993 18	999 10	226 03	440 18	6.658 18
Old and scrap 11 08	23 16	26 11	52 11	307 11
Castings 147 06	84 15	94 17	54 04	71 15
Chains, etc 142 10	08	8 10	152 04	124 09
Steel 143 03	311 03	287 16	272 17	406 15
Anvils 58 04	69 05	85 16	68 12	88 15
Nails and spikes 10 17	14 05	22 03	23 07	30 08
Hammers 2 10	2 07	2 19	1 01	4 16
Wire 4 03	3 02	2 03	3 03	15 18
			VI CONTRACTOR	

The following table, taken from the "Commercial List," shows the supplies sent annually from the different coal regions

Table showing the quantity of Anthracite Coal sent to market annually, from its commencement in 1830 to 1848, inclusive. Prepared from official documents.

No.	Total	Total	Lacka-	Pine	Lyken's	Shamo-	Wyom-	Total
Years.	Lehigh.	Schurlkill. Tons.	Wana. Tons.	Grove. Tons.	Valley. Tons.	kin. Tons.	ing. Tons.	Supply. Tons.
1820	365							365
1821	1,073			******				1,073
1822	2,441					******		2,440
1823	5,823					*****		5,823
1824			*******					9,541
1825		6,500		******				34,896
1826		16,767	*******		*****			48,047
1827		31,360	*******					63,434
1828	30,232	47,284					******	77,516
1829		79,973	7,000					112,083
1830		89,984	42,700				******	174,734
1831	40,966	81,854	54,000					176,820
1832	75,000	209,271	84,500	******		******		368,771
1833	123,000	252,971	111,777	******				487,748
1834	106,244	226,692	43,700			******		376,636
1835	131,250	339,508	98,845	5,500		******		575,103
1836	146,522	432,045	104,500	9,978	5,439			698,484
1837	225,937	523,152	115,387	16,726	6,430			887,632
1838	214,211	433,875	76,321	16,665	6,005	4,104		746,181
1839		442,608	122,300	19,227	5,372	11,930	******	823,479
1840	225,591	452,291	148,470	19,463	5,302	15,928		867,045
1841	*142,807	585,542	192,270	15,306	6,176	22,154		964,255
1843	271,913	541,504	205,253	31,437	181	10,098	47,346	1,107,732
1843	267,125	677,313	227,605	22,879	*****	9,870	57,740	1,262,532
1844	376,363	840,379	251,005	27,719	*****	13,087	114.906	1,623,459
1845		1,086,068	266,072	31,208		10,135	178,401	2,002,877
1846		1,236,581	318,400	55,346		12,646	188,003	2,333,494
1847		1,572,794	388,200	61,233	******	14,904	289,898	2,970,597
1848	680,193	1,652,834	434,267	56,938	2,000	*****	237,271	+3,063,503
13 (27) 1.21000	5,505,327	11,859,150	3,392,572	384,625	36,905	124,856	1,113,565	22,417,000

3,392,572 384,625 36,905 124,856 1,113,565 22,417,000 Great freshet which injured the canal. + Less Shamokin mines.

The Iron trade has suffered more seriously, being brought directly in competition with Foreign Iron which has been selling below the cost of production. Prices have materially declined since 1848.

Many of the Rolling mills in the interior of the State are not in operation.

From the Ballimore American.

Society for the Developement of the Miner al Resources of the United States.

An association of gentlemen with the above title has been organized in Philadelphia, and at a monthly meeting held on the 2d instant, accepted the charter granted them by the Legislature of Pensylvania. The charter declares the object of the corporation to be to collect and preserve specimens of all the rocks and minerals of the United States, useful in agriculture, architecture, manufactures and the arts; to offer them for free inspection; to cause to be diseminated useful information upon economical mineralogy and geology, and to introduce into use Ameralogy and geology, and to introduce into use Ameralogy and geology, and to introduce into use Ameralogy. alogy and geology, and to introduce into use American mineral productions. The society is also empowered to appoint teachers and professors of mineralogy, geology and mineralogical chemistry, and to grant diplomas of membership, henorary membership, and professorships. The following is the list of officers to serve until the next semi-annually election, viz.

the list of officers to serve until the next semi-annually election, viz:

P. A. Browne, President; George Chambers, William Darlington, Edward Swift, James S. Craft, Jonas P. McClintock, Vice Presidents; M. W. Dickeson, Correspoding Secretary; Samuel R. McClintock, Recording Secretary; Thomas Gilpin, Treasurer; M. W. Dickeson and Algernoon S. Roberts, Curators: B. B. Young, Jesse R. Burden, Samuel Moore, Richard Burr, Charles B. Penrose, William Rawle, Eli K. Price, Alernon S. Roberts, Richard C. Taylor, George M. Dallas, T. A. Comly, and Charles Gilpin, Managers.

and Charles Gilpin, Managers.

At a meeting on the second instant the following

donations to the cabinet of the society were made:

Three fine polished specimeus of Marble from
Alabama, from B. F. French, Esq.

Two Mineralogical specimens from E. A. Bulk-

l wo Mineralogical specimens from E. A. Bulk-ly, Esq., of Wilkesbarre, which, with their accom-panying letter, were referred to a committee. A suite of 50 fine specimens, illustrating the Geol-ogy of the Flemington Copper Mines, from Fred'k. Van Dyke, M. D.

Van Dyke, M. D.

Specimens of hydrated per oxide of iron from Upper Freehold, Monmouth county, N. J., by the Rev. J. H. Avery.

A splendid specimen of tubulated iron ore, three feet long, from the interior of Pennsylvania, by M. J. A. Comly, Esq.

Among the resolutions passed was one appointing a committee of ten members to inquire into the expediency of holding on the 4th, 5th and 6th days of June next, a public exhibition of specimens tending to show the mineral resources of the United States. The committee are to communicate with gentlemen at a distance and to ascertain to what extent they will aid the society in making the exhibition. The following are the names of the gentlement commissing the committee:

men comprising the committee:

P. A. Browne, George Chambers, W. Darlington,
James S. Craft, Jonas P. McClintock, Edward
Swift, A. S. Roberts, M. W. Dickeson, Frederick
Van Dyke and Col. B. B. Long.

After the election of several honorary and other

members, the society adjourned, to meet on the first Friday in April next.

The objects of the association are truly laudable, and we doubt not that the gentlemen comprising it will receive the cordial co-operation not only of men of science throughout the Union, but of all who feel an interest in the developement of the mineral resources of the country.

Massachusetts Railroads.

We are indebted to a valued friend, for a copy, at the earliest moment of publication, of the Annual Returns of the several Railroad corporations in operation within the commonwealth of Massachusetts. The following analysis of them is presented to our

The returns of the 37 corporations show their capi tal stock to be.......\$50,004,100
Add the Hartford and New Haven... 60,000 60 000 00 Add the Framingham branch .....

The amount of capital paid in ......\$37,009,560 95 Providence and Wor-

cester, say 1,232,000 00	Mean cost per mile of all finished	The net returns were about 4 24-100 per cent, or
Pittsfield and N. Adams	This includes 220.210 of double track, together	The expense of working the English roads is less
Hariford and New Ha-	with depot lands, depot, and furniture. In the above	than fifty per cent. of the gross earnings.
ven, say	nus is in Boston, and whose real estate makes an	The expense of working the Massachusetts roads
Annual Million Co., Inches and In	important item of their cost, as will be seen in the	If the returns from the several roads have been
Difference	following statement of expenditures for stations	perfect, no table made from the list would have
The cost of the several railroads as appears by the returns, is	Boston and Lowell	shown the average dividends of the whole. The
Add the Hartford and New Haven 60,000 00	Boston and Maine	during the past year, is sufficient to show that no
Fitchburg and Worcester, in part, per	Eastern	average could be taken of the whole, which would
items in return	Old Colony	The committee have taken thirteen roads, (upor
46,886,991 93	server by the many of the transfer	whose returns reliance can be placed, and none of
The debt of the several corporations, as per returnf,	\$1,755,557 93	1
is	The Boston and Providence, and Boston and Worcester, are not included in the above owing to	COST. DIVIDENDS
	the defficiency of their returns. The addition of	Berkshire
Difference	their expenditures to the above sum would, it is sup- posed, much increase the average.	Boston and Maine3,249,804 52 252,798 50
The earnings of the several corpora- tions were	The following corporations do not return divi-	Boston and Providence. 2.893,300 00 175,349 00
The expense of working the several	dends, viz:	Boston and Worcester 4,245,175 00 325,500 00
roads was	CAPITAL.	Connecticut River1,234,970 00 69,960 00 Eastern2,655,700 00 239,628 00
The net earnings of the same 2,716,920 30	Cheshire,\$1,700,000 In operation. Essex	Fall River
The difference between the sum of the last two items	Essex	Fitchburg
and the gross earnings, being 65,300 34 is owing to the incompleteness of the returns.	cester 500,000 Constructing.	Nashua and Lowell 525,000 00 50,000 00 N. Bedford & Taunton. 400,000 00 24,000 00
The dividends, as per returns, amount	Fram'ham Branch 200,000 Organized merely. Grand Junction &c 1,220,000 Constructing.	Old Colony
to the sum of \$2,074,147 50	Lex. & W. Cam' 200,000 Run by Fitchburg.	Stoughton Branch 85,400 00 4.270 00 Taunton Branch 250,000 00 20,000 00
To this sum should be added the divi-	Lowell & Lawrence, 300,000 In operation.	Western5,150,000 00 366,000 00
Net earnings of the Pittsheld and IV.	Newburyport 250,000 Constructing. Norfolk County 700,000 Constructing.	
Adams road	Norwich and Wor. 2,200,000 In operation.	\$28,476,674 52 \$2,074,147 50
Hartiord and New Haven dividend,	Pet'rsbo' & Shirley 275,000 Leased to Fite'g. Providence & Wor 1,232,000 In operation.	Mean rate per cent. upon money paid in, 7.283. The above is an approximation to correctness,
	South Shore 600,000 Les'd to Old Col.	though not entirely accurate. The Western road,
cost of road	Stoney Brook 300,000 Les'd to Nashua.	for instance, paid 8 per cent; by the table, it is less.
Cape Cod, say 2 per ct on eost of road 11,742 32	Vermont & Mass 3,200,000 In operation.	The discrepancy is caused by the fact, that new stock has been created the present year and has been
Total dividends	Wor. & Nashua 1,800,000 In operation.	expended in construction, thus adding both to capi-
Amount carried to surplus funds, by 9	Delicery Steware in Transaction to the Market	tal and cost of road during the year, while one of the semi-annual dividends was declared upon the
roads was	Making a sum of \$15,357,000	last year's capital. The dividends are declared
seven roads was 55,283 18	Of the above roads, the Cheshire has been com- pleted since the last return.	upon the capital paid in and not always upon the
Cumber ford in second (as gen an	Essex was opened for travel in the summer of '48.	cost, and this will show a difference between the table and the actual dividend, in cases where the
Surplus fund increased	Lowell and Lawrence opened July 1, 1848.	cost of the road varies from the amount of capital
It is impossible, at the present time, to ascertain, with accuracy, the average cost per mile, of the se-	Petersborough and Shirley is leased at a rent of 6 per cent, to be, in a certain event, increased to 7.	paid in. It should be added, that, in all statements relative to the Western railroad, the dividends are
veral roads whose returns are made for the past year	South Shore is leased to the Old Colony at 6 per	reckoned upon its chartered capital which now
as many of them are unfinished. The committee	cent.  Stony Brook is leased at 6 per cent., and half the	stands at \$5,150,000. In addition to which there
have selected the following completed roads and made an average of the cost per mile, viz:	surplus earnings.	has been provided for its construction, and received by the corporation, £899,900 sterling bonds, payable
Cost. Main track. Br.	Vermont and Massachusetts completed since re-	with interest, at 5 per cent sold at an advance of
	Wcrcester and Nashua opened in the autumn of	not less than 8 per cent—\$4,319,520; Albany city
Boston and Lowell2,013,687 40 25.761 1.861 Boston and Maine3,571,832 04 74.260 5.080	1848.	bonds, \$1,000,000, interest o per cent., making the total means provided for its construction, \$10,469
Boston and Providence.3,031,106 72 41.000 6.600	The length of the main road is 954.346 miles.	520, from which there has been paid, into the seve-
	The length of branches is 88.810 "	ral sinking funds, \$459,578, 62, leaving for con-
Cape Cod branch 587,116 01 27.800 Cheshire	Total	struction and equipment of road, \$10,009,941 38. The cost of the road to the date of the return is
Connecticut River1,588,184 65 50 000 2 350	The length of double track 220.212 "	\$9,900,153 76 leaving in possession of the corpo-
Dorchester and Milton. 114,224 27 3:246 Eastern3,095,393 87 38:201 19:875	The firm of the fi	ration a balance of construction funds amounting to \$109,787 62. The balance of interest paid by
Essex	miles per hour.  The average speed of freight cars is 12.35 miles	the corporation the past year is \$266.380 77. The
Fall River	per hour.	first dividend was declared upon forty thousand
Fitchburg	The casulalties—56 killed, 65 injured During the past year, about 300 miles of railroad	shares, the second, upon fifty-one thousand and five hundred, and were each four per cent. Of the sur-
	have been put in operation on the various lines	plus of \$47,330 41, \$45,833 34 must be paid into
Nashua and Lowell 525,063 42 14 583	leading to Boston, many of which are far from be-	the general sinking fund, which will leave the sum
N. Bedford & Taunton. 499,965 58 20:130 0:947 Norwich & Worcester. 2,187,829 21 59:000 7:000	ing completed.  The miles of railroad finished in New York, it is	of \$1,497 07 to be added to surplus fund of former years.
Old Colony2,080,903 00 37-250 7-750	believed, do not exceed 750.	By the report of the communissioners
Peterboro' and Shirley. 208,311 30 12-014	The whole number of miles in the United States	of the sinking fund of the Western
	is stated at 6.4211, of which nearly one sixth part is in Massachusetts.	railroad, it appears that the amount of the fund on the 31st day of De-
South Shore 255,748 71 11-500	The extent of railroad finished in England, at the	cember, 1847, as per commission-
Stoney Brook 246,659 76 13 160 Taunton branch 305,085 78 11 000 0 568	end of the year 1848, and in operation, was 4,420	ers' report of that date, was\$409.592 71
Wast Ctaslibuides 41 F1C 00 0 PC0	miles, constructed at a cost of £131,000,000 sterling, or \$628,000,000.	And there was received during the year 1848, in interest and divi-
Western	The average cost per mile is about \$142,000.	dends\$23,839 98
Worcester & Nashua1,010,537 78 39 020	These roads are thoroughly built, generally with	Of Western railroad cor-
43,965,236 67 913 104 88 810	There is no road in this country which cost the	poration, 1 per cent. on \$4,000,000 40,000 00
Length of main track	average of the English lines, excepting perhaps, the	
	Reading railroad in Pennsylvenia.	Showing an increase of 63,839 98
" branches	Treduting Particular, in The Minhops doors 1040	
" branches	The traffic on the English roads, in 1848, amoun-	Amount of tund, December 31, 1848\$473,432 69

## Abstract from the Several Returns,

NAMES OF ROADS.	Capital.	Capital paid in.	Cost.	Length.	Length of double track.	Length of branches.	Speed of passen- ger taains.
Barre and Worcester.	\$1,000,000 00				Carry Company		111
Berkshire	600,000 00	600,000 00	\$600,000 00	21.137			22.00
Boston and Lowell	1,800,000 00	1,800,000 00	2,313,687 40	25.761	25.761	1.861	24.9)
Boston and Maine	4,107,500 00	3,249,804 52	3,571,832 04	74.26	13.50	5.08	Expr. 28-2 } 22.00
Boston and Providence	3,160,000 00	P. MARGARETTE S	12 10 11 11 11 11 11 10	41.00	15.75	6.60	30-00
Boston and Worcester	4,500,000 00	P. C. Company of the State of t		44.625	44.625	22.00 single,	22.00
Cape Cod Branch	500,000 00			27-800	12,12	8·00 double §	22.24
Cheshire	1,700,000 00	C. C. T. 133 A. C.	- 10 10 10 10 10 10 10 10 10 10 10 10 10	53-646	1000		23.00
Connecticut River	1,500,000 00	110 00000		50.000		2.35	21.50
Dorchester and Milton	130,000 00		4.0	T. I mornio		Old Colony Rai	lroad.
Eastern	3,150,000 00	on all to brown	17.4		16.00	19.875	21.00
Easex	700,000 00	V 1/2 (200 TV)		100000000000000000000000000000000000000	1000		20.00
Fall River	1,050,000 00	1000	1,145,982 93	Control of		1.1.7.17.	22-50
Fitchburg	3,320,000 00		2,945,630 98		17:00	6.537 single,	25.00)
Fitchburg and Worcester			, , , ,	and not in	operation.	0.242 double	20.00 }
Framingham Branch		June 21, 1848.	la contract	commence	11		
Grand Junction Railroad and Depot Company		*	The state of the state of		100		
Hartford and New Haven	-,,			5.87	operation.		25-00
Lexington and West Cambridge	200,000 00	118,460 00	050 000 70		0.50		
Lowell and Lawrence	300,000 00		1144	12:35	Leased to	Filehoung Co.	25.00
Nashua and Lowell	11				14.000		28.00
New Bedford and Taunton.	600,000 00				14.202	0.947	24.00
Newburyport	400,000 00	The second second			TT 6 11 1 1		
Norfolk County					111111111111111111111111111111111111111		
with the control of t	700,000 00		1		Not in operatio		00.00
Norwich and Worcester	2,200,000 00		2,187,829 21		1.80	7.00	22-20
Old Colony		1,601,415 00	1 1 1 3 1 1 1 1	1 1 5 1	11.50	7.75	20.00
Peterborough and Shirley	,		,	100000000000000000000000000000000000000	Leased to	Fitchburg Rail	1000
Pittsfield and North Adams			447,755 45	Ly rolling	0.70	***************************************	20-00
Providence and Worcester	1,232,000 00		1,873,895 76		5.00		19.00
South Shore	000,000 00		114		Opened Jan. 1,	1	
Sioney Brook	,				Leased to Nash	ua and Lowell	Railroad.
Stoughton Branch		1 18	91,535 01	•••••		,	
Taunton Branch	250,000 00	250,000 00	305,085 78	Call Division In Control		0.568	24.00
Vermont and Massachusetts	3,200,000 00				Not completed.	-	burg Railroad.
West Stockbridge	39,600 00		100		Built by, and	leased to West	and the later of
Western	6,150,000 00	5,150,000 00	7,975,452 09	117-804	51-754		22.00
Worcester and Nashua	1,800,000 00	934,499 47	1,010,537 78	39-02	2-12		20.00

# Showing the Leading Statistics of the Railroads.

Speed of reight trains.	Earnings.	Expense of working.	Net Earnings.	Dividends.	Debt.	Surplus.	Casualties.
11.00	\$42,000 00		\$42,000 00	\$42,000 00	Road leased.		Deficient.
12.00	461,339 35	\$268,707 40	192,631 95	144,000 00	\$59,530 00	\$251,106 76	4 killed and 4 wounded.
10-00	511,627 89	264,534 58	247,093 31	252,798 50	297,985 93	48,272 45	5 killed and 3 injured.
15-00	354,375 43	183,361 81	171,013 62	175,349 00			4 killed.
9-00	716,284 11	406,203 72	310,080 39	325,500 00	101,258 04 259,634 17		4 killed and 5 injured.
12-35	35,635 22		20,679 28		217,395 68		1 killed and 3 injured.
12.00	80,033 90	47,068 44	32,965 46		698,127 97		***************************************
8:75	165,242 13	95,658 93	69,583 20	69,960 00	427,337 59	1,354 23	1 killed and 3 injured.
	Not stated.	Not stated.	Not stated.	Not stated.	41,234 27		
15.00	479,157 89	230,933 64	248,324 25	239,628 00	819,439 65	136,135 72	8 killed and 36 injured.
15-00	10,607 50	Worked by	Eastern Railr	oad.	160,958 74		Deficient.
11.00	184,344 11	109,390 98	17/2	68,250 00	99,101 65	15,924 07	2 killed.
10-00	486,264 63	286,046 48	200,219 15	201,029 50	213,442 63	145,938 04	8 killed and 2 injured.
A.2							
	881 57	and interest,	<b>)</b>		54,957 76	1,050 60	
12.00		14,575 50 2,660 11	}				and the second second
		9,309 11	Leased.	Leased.	127,843 81		Deficient,
12:00	20,744 06	13,711 60		None.	73,145 30		Deficient.
14:00	169,187 74	109,599 18			1 1 1	27,213 77	
15:00	136,151 81	96,226 41		24,000 00	17,150 00	80,962 93	
	100,101 01		100				The second second
			•		233,166 79		14.24.00
12-50	218,073 30	131,107 80	86,955 50	None.	974,945 05		Deficient.
12-50	227,350 27	139,592 81					and appropriate to the figure of the second
1200	221,000 21			capital stock.			Deficient.
20:00	28,319 52						Deficient.
9:00	193,844 42				573.058 70		4 killed.
3.00	100,044 40	00,000 /1	100,001 71	None.			
•••	**** ****			None.	12.300 83		1 killed and 2 injured.
	23,699 71	17,619 13	6,080 58		1.000	1,964 59	A STATE OF THE STA
15.00	1411-7	to the land		3.5	The second	28,035 01	1 killed.
1500	108,101 18 63,000 00	111.0	Not stated.	Not stated.		20,000 0	Deficient.
					207,101 10		Deficient.
10.00	1,963 33		1000	-	5,319,520 00	CONTRACTOR OF THE PARTY OF THE	and the state of the same of t
12-00	1,332,068 29	652,357 11	679,711 18	300,000 00	372,211 97	The state of the state of	Deficient.
9.00	16,855 66	14,465 61			312,211 91	120000000000000000000000000000000000000	

### ENGINEERS

Arrowsmith, A. T., Buckfield Branch Railroad, Buckfield, M

Berrien, John M., Michigan Central Railroad, Marshall, Mich.

Clement, Wm. H., Little Miami Railroad, Cincinnati, Ohio.

Fisk, Charles B., Cumberland and Ohio Canal, Washington, D. C.

Felton, S. M., Fitchburgh Railroad, Boston, Mass

Ford, James K., New York.

Gzowski, Mr., St. Lawrence & Atlantic Railroad, Montreal, Canada

Gilbert, Wm. B., Rutland and Burlington Railroad, Rutland, Vt.

Garnett, C. F. M. Nashville and Chattanooga R. R., Nashville, Tenn.

Holcomb, F. P. Southwestern Railroad, Macon, Ga

Higgins, B.
Mansfield and Sandusky Railroad, Sandusky City, O.

Johnson, Edwin F. New York and Boston Railroad, Middletown Ct.

Jones C. F., South Oyster Bay, L. I.

Latrobe, B. H.,
Baltimore and Ohio Railroad, Baltimore, Md.

Morton, A. C., Atlantic and St. Lawrence Railroad, Portland, Me.

McRae, John, South Carelina Railroad, Charleston, S. C.

Nott, Samuel, Lawrence and Manchester Railroad, Boston,

Reynolds, L. O., Central Railroad, Savannah, Ga.

Roberts, Solomon W., Ohio and Pennsylvania Railroad,, Pittsburgh, Pa.

Robinson, James P., Aandroseggin & Kennebec Railroad, Waterville, Me

Schlatter, Charles L., Northern Railroad (Ogdensburg), Malone, N. Y.

Stark, George., Bost., Con. and Mont. R. R., Meredith Bridge, N. H.

Trimble, Isaac K., Philad., Wil. & Baltimore Railroad, Wilmington, Del

Tinkham, A. W., United States Fort, Bucksport, Me.

Thomson, J. Edgar., Pennsylvania (Central) Railroad, Philadelphia

Whipple, S., Utica, N. Y.

Williams, E. P.,
Auburn and Schenectady Railroad, Auburn, N. Y.

Williams, Charles H.,
Milwaukie, Wisconsin.

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Railroad Routes explored and surveyed. Estimates, Plans and Specifications furnished for Dams, Bridges, Wharves, and all Engineering Structures.

October 14, 1848.

6m\*

James Herron, Civil Enginee

James Herron, Count Lag.

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PATENTEE OF THE
HERRON RAILWAY TRACK.
Models of this Track, on the most improved plans,
where the Engineer's office of the New York may be seen at the Engineer's office of the New and Eric Railroad.

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THE NEW JERSEY IRON CO'S WORKS AT HE NEW JERSEY IRON CO'S WORKS AT
Boonton, are now in full operation, and can execute orders for Railroad Bars of any required pattern,
equal in quality to any made in this country. Apply
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New York, October 25, 1848.

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JOHN M. FORBES, Boston.
ENOCH PRATT, Baltimore, Md.

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Wrought Iron Chairs, Clamps, Keys and Bolts for Railroad fastenings, also made to order. A full assortment of Ship and Boat Spikes always on hand.

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very best quality.

REEVES, BUCK & CO.,
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Railroad Iron, Pig Iron, &c.
600 Tons of T Rail 60 lbs, per yard.
25 Tons of 24 by 4 Flat Bars.
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100 Tons No. 1 Gartshrorie.
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For Sale by A. & G. RALSTON & CO.

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THE Subscribers are Agents for the sale of numerous prands of Charcoal and Anthracite Pig Iron, suitable for Machinery, Railroad Wheels, Chains, Hollowware, etc. Also several brands of the best Puddling Iron, Juniata Blooms suitable for Wire, Boiled Plate, Aze Iron, Shovels, etc. The attention of those engaged in the manufacture of Iron is solicited by Vine Street Wharf, Philadelphia.

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MANUFACTURERS OF EVERY STYLE OF
Freight and Baggage Care—Forty rods east of
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Running parts in sets complete. Wheels, axles, or
any part of cars furnished and fitted up at short notice
and in the best manner.

N. B. Particular attention paid to the manufacture
of the most improved Freight Cars. We refer to the
New Haven, Hartford and Springfield; Connecticut
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THE undersigned is prepared to execute orders for Locomotive Steam Engines and Tenders; and from long experience in building, can furnish machines of most superior workmanship. The Works are very large, and conveniently situated near the line of Railroad leading to Buffalo, and can furnish Locomotive Tenders and Railroad Machinery at short notice.

Echanges 24 1849

February 24, 1849.

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THE Mattewan Company have added to their Machine Works an extensive Locomotive Engines of every size and pattern—also Tencomotive Engines of every size and pattern—also Tenders, Wheels, Axles, and other railroad machinery, to which they ask the attention of those who wish such articles, before they purchase elsewhere.

STATIONARY ENGINES, BOILERS, ETC.,

STATIONARY ENGINES, BUILERS, ETC., Of any required size or pattern, arranged for driving Cotton, Woollen, or other Mills, can be had on favorable terms, and at short notice.

COTTON AND WOOLLEN MACHINERY, Of every description, embodying all the modern improvements, second in quality to none in this or any other country, made to order.

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Of every description, may be had at short notice, as this company has probably the most extensive assortment of patterns in this line, in any section of the country, and are constantly adding to them.

TOOLS.
Turning Lathes, Slabbing, Plaining, Cutting and Drilling Machines, of the most approved patterns, together with all other tools required in machine shops, may be had at the Mattewan Company's Shops, Fishkill Landing, or at 39 Pine street, New York, WM. B. LEONARD, Agent.

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The subscribers have on hand, and are constantly receiving from their manufactory,

PARK WORKS, SHEFFIELD,
Double Refined Cast Steel—square, flat and octagon.
Best warranted Cast Steel—square, flat and octagon.
Best double and single Shear Steel—warranted.
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poses.
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May 6, 1848.

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THE ANNULAR RING PISTON ENGINES, of Mesers. Maudslay, Sons & Field, of London, may be built in the United States, under license, which can be obtained of their agent, THOMAS PROSSER, C. E. 28 Platt street, New York.

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RAILROAD CARS, OF EVERY DESCRIPTION, VIZ: PASSENGER, FREIGHT AND HAND CARS,

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Cincinnati, Ohio, Ca. 2, 1848.

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SNOW PLOUGHS AND ENGINE TENDERS OF VARIOUS KINDS.

CAR WHEELS and AXLES fitted and furnished at short notice; also, STEEL SPRINGS of various kinds; and

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FROM 1 1-2 TO 8 INCHES DIAMETER

These Tubes are of the same quality and manu facture as those so extensively used in England, Scotland, France and Germany, for Locomotive Marine and other Steam Engine Boilers.
THOMAS PROSSER,

Patentee.

28 Platt street, New York.

THE NEWCASTLE MANUFACTURING Co THE NEWCASTLE MANUFACTURING Co. continue to furnish at the Works, situated in the town of Newcastle, Del., Locomotive and other steamengines, Jack Screws, Wrought Iron Work and Brass and Iron Castings, of all kinds connected with Steamboats, Railroads, etc.; Mill Gearing of every description; Cast Wheels (chilled) of any pattern and size, with Axles fitted, also with wrought tires, Springs, Boxes and bolts for Cars; Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders will be executed with promptness and despatch. Communications addressed to Mr. William H. Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY, a45

President of the Newcastle Manuf. Co.

To RAILROAD COMPANIES AND MANUfacturers of Railroad Machinery. The subscribers have for sale American and English Bar Iron, of all sizes; English Blater, Cast, Shear and Spring Steel; Juniata Rods; Car Axles, made of double refined iron; Sheet and Boiler Iron, cut to pattern; Tires for Locomotive Engines, and other railroad carriage wheels, made from common and double refined B. O. Iron; the latter a very superior article. The Tires are made by Messrs. Baldwin and Whitney, Locomotive Engine Manufacturers of this city. Orders addressed to them, or to us, will be promptly executed. When the exact diameter of the wheel is stated in the order, a fit to those wheels is guaranteed, saving to the purchaser the expense of turning them out inside.

THOMAS & EDMUND GEORGE, N. E. cor. 12th and Market ats., Philad., Pa.

N. E. cor. 12th and Market ats., Philad., Pa.

NICOLL'S PATENT SAPETY SWITCH FOR Railroad Tursouts. This invention for some time in successful operation on one of the principal railroads in the country, effectually prevents engines and their trains from running off the track at a switch, left wrong by accident or design. It acts independently of the main track rails; being laid down or removed without cutting or displacing them.

It is never touched by passing trains, except when in use, preventing their running off the track. It is simple in its construction and operation, requiring only two castings and two rails; the latter, even if much worn or used, not objectionable.

Working models of the Safety Switch may be seen at Messrs. Davenport, Bridges & Kirk's Cambridge Port, Mass., and at the office of the Railroad Journal, New York.

Plans, Specifications, and all information obtained,

New York.

Plans, Specifications, and all information obtained, on application to the Subscriber, Inventor and Patentee.

G. A. NICOLLS, G. A. Possing, Pa. Reading, Pa

ACHINE WORKS OF ROGERS KETCHUM to GROSVENOR, Patterson, N. J. The undersigned receive orders for the following articles manufactured by them of the most superior description in every particular. Their works being extensive, and the number of hands employed being large, they are enabled to execute both large and small orders with prompiness and dispatch.

Ruiroad Work.—Locomotive Steam Engines and Tenders; Priving and other Locomotive Wheels, Axles Springs and Flange Tyres; Car Wheels of Cast Iron a variety of patterns and chills; Car Wheels of Cast Iron with wrought tyres, Axles of best American re-

a variety of patterns and china; car wheels of Cast Iron with wrought tyres. Axles of best American re-fined iron; springs; boxes and bolts for cars. Cotton, Wool and Flax Machinery of all descriptions and of the most improved patterns, style and work-

manship.

Mill gearing and millwright work generally, hydraulic and other presses; press screws; callenders; lathes and toole of all kinds; iron and brass castings of all descriptions.

ROGERS, KETCHUM & GROSVENOR,

Patterson, N. J., or 60 Wall St., New York.

I RON BRIDGES, BRIDGE & ROOF BOLTS, tetc. STARKS & PRUYN, of Albany, New York. having at great expense established a manufactory with every facility of Machinery for Manufacturing Iron Bridges, Bridge and Roof Bolts, ton gether with all kinds of the larger sizes of Serew Bolts, Iron Railings, Steam Boilers, and every description of Wrought Iron Work, are prepared to furnish to order, on the shortest notice, any of the above branches, of the very best of American Refined Iron, and at the lowest rates.

During the past year, S. & P. have furnished several Iron Bridges for the Eric Canal, Albany Basin, etc.—and a large amount of Railroad Bridge Bolts, all of which have given the most perfect satisfaction.

They are permitted to refer to the following gentlemen:

Charles Cook, Nelson J. Beach, Jacob Hinds,

Willard Smith, Esq., Mesers. Stone & Harris, Mr. Wm. Howe, Mr. S. Whipple,

January 1, 1849.

Canal Commissioners
of the
State of New York.
Engineer of the Bridges for
the Albany Basin.
Railroad Bridge Builders,
Springfield, Mass.
Engineer & Bridge Builder,
Utica, N. Y.

FRENCH & BAIRD'S Patent Spark Arrester.





TO THOSE INTERESTED IN RAILROADS.
Railroad Directors and Managers are respectfully invited to examine an improved Spark Arrester recently patented by the undersigned.
Our improved Spark Arresters have been extensively used during the last year on both Passenger and Freight Engines, and have been brought to such a state of perfection, that no annoyance from sparks or dust from the chimney of engines on which they are used is experienced.

dust from the chimney of engines on which they are used is experienced.

These Arresters are constructed on an entirely different principle from any heretofore offered to the public. The form is such that a rotary motion is imparted to the heated air, smoke and sparks passing through the chimney, and by the centrifugal force thus acquired by the sparks and dust, they are separated from the smoke and steam, and thrown into an outer chamber of the chimney through openings near its top, from whence they fall by their own gravity to the bottom of this chamber; the smoke and steam passing off at the top of the chimney, through a capacious and unobstructed passage, thus arresting the sparks without impairing the power of the engine by diminishing the draught of activity of the fire in the furnase.

These chimneys and arresters are simple, durable and neat in appearance. They are now in use on the following roads, to the managers and other officers of which we are at liberty to refer those who may desire to purchase, or obtain further information in regard to their merits.

winch we are all horry to refer those who may desire to their merits.

R. L. Stevens, president Camden and Amboy railroad company; Rich'd Peters, sup't Georgia railroad, Augusta, Ga.; G. A. Nicolls, sup't Reading railroad, Reading, Pa.; W. E. Morris, pres't Philadelphia, Germantown and Norristown railroad company, Philad.; E. B. Dudley, pres't W. and R. railroad co., Wilmington, N. C.; Col. Jas. Gadsden, pres't S. Carolina railroad co., Charleston, S. C.; W. C. Walker, agent V. and J. railroad, Vicksburg, Miss.; R. S. Van Rensselaer, sup't Hart. and N. H. railroad; W. R. McKee, sup't Lexington and Ohio railroad; T. L. Smith, sup't N. Jersey railroad and transp. co; J. Elliott, sup't M. P., Philadel. and Wilm. railroad; J. O. Sterns, sup't Elizabethtown and Somerville railroad; R. R. Cuyler, pres't Central railroad, Savannah, Ga.; J. D. Gray, sup't Macon, (Ga.) railroad; J. H. Cleveland, sup't of Southern railroad, Monroe, Mich.; M. F. Crittenden, sup't mo.power Central railroad, Detroit, Mich.; G. B. Fisk, pres't Long Island railroad, Brooklyn, L. I. Orders for these chimneys and arresters, addressed to the subscribers, care of Baldwin and Whitney, of Philadelphia, will be promptly executed.

The subscribers will dispose of single rights, or rights for one or more States on reasonable terms.

FRENCH & BAIRD.

Philadelphia, Pa., April 6, 1844.

### MACHINERY.

Henry Burden's Patent Revolving Shingling Machine



THE Subscriber having recently purchased the right of this machine for the United States, now offers to make transfers of the right to run said machine, or sell to those who may be desirous to purchase the right for one or more of the States.

This machine is now in successful operation in ten or twelve iron works in and about the vicinity of Pittsburgh, also at Phœnixville and Reading, Pa., Covington Iron Works, Md., Troy Rolling Mills, and Troy ron and Nail Factory, Troy, N. Y., where it has givuniversal satisfaction.

Its advantages over the ordinary Forge Hammer are numerous: considerable saving in first cost; saving in power; the entire saving of shinglers, or hammersman's wages, as no attendance whatever is necessary, it being entirely self-acting; saving in time from the uantity of work done, as one machine is capable of working the iron from sixty puddling furnaces; saving of waste, as nothing but the scoria is thrown off, and that most effectually; saving of staffs, as none are used or required. The time required to furnish a bloom being only about six seconds, the scoria has no time to set, consequently is got rid of much easier than when allowed to congeal as under the hammer. The iron being discharged from the machine so hot, rolls better and is much easier on the rollers and machinery. The subscriber feels confident that persons who will examine for themselves the machinery in operation, will find it possesses more advantages than have been enumerated. For further particulars address the subscriber at Troy, N. Y.

P. A. BURDEN.

PATENT OIL FOR MACHINERY.—The Subscribers are now prepared to supply "Devlan's Patent Oil" in any quantity; Machinists, Manufacturers, etc., are requested to call and examine the article. Certificates of its efficacy and superiority over all other oils, from several of our most extensive manufacturers are now in our possession.

turers are now in our possession.

ALSO,
OIL.—Bleached and Unbleached Winter, Solar, Elephant and Whale Oils; also light colored selected racked Whale Oil, suitable for retailing. For sale by
ALLEN & NEEDLES,
No. 22 and 23 S. Wharvea, near Chestnut St.,
Philadelphia.

February 24, 1949.

# DAVENPORT & BRIDGES,

HAVING ASSOCIATED WITH THEM

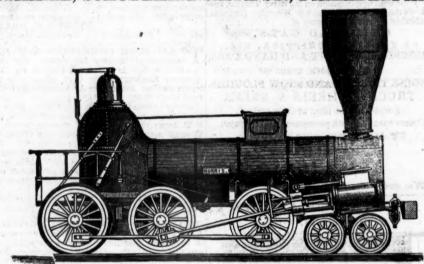
MR. LEWIS KIRK, OF READING, PA.,

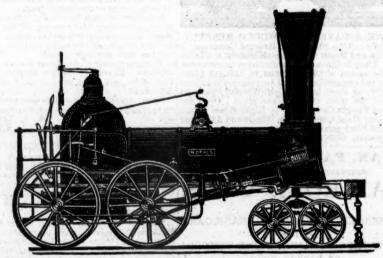
And recently enlarged their Establishment, (making it now the most extensive in the United States,) they are prepared to manufacture to order Locomotive Engines and Cars of every description. Stationary Engines, Steam Hammers, Boilers, and all kinds of Railroad Machinery. Also, Castings and Forge Irons of all kinds—including Chilled Wheels, Frogs, Chairs, Switches, Car Axles, and Locomotive Cranks, Connecting Rods, Steel Springs, Bolts, etc., etc. Orders from all parts of the country solicited for Engines and Cars, or any part or parts of the same. All orders will be furnished at short notice, and on as good terms as any manufactory in the country. Coaches pass our works every fifteen minutes during the day, from Brattle St., Boston.

DAVENPORT, BRIDGES & KIRK.

Cambridgeport, Mass., February 16th, 1849.

NORRIS' LOCOMOTIVE WORKS. BUSHHILL, SCHUYLKILL SIXTH-ST., PHILADELPHIA,





Their shops being enlarged and their arrangements described and th Their shops being enlarged, and their arrangements considerably extended to facilitate the speedy execution of work in this branch, they can offer to Railway Companies unusual advantages for prompt delivery of Machinery of superior workmanship and finish.

Connected with the Locomotive business, they are also prepared to furnish, at short notice, Chilled

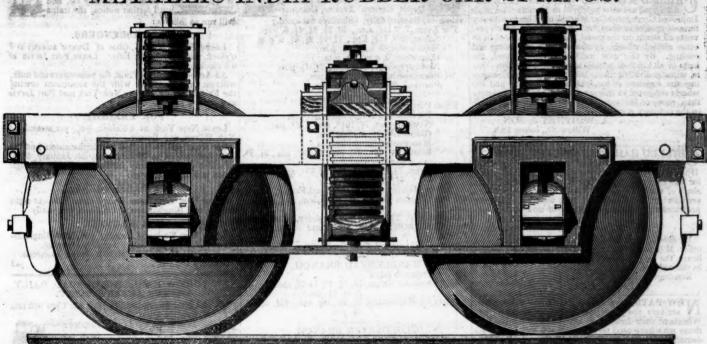
Wheels for Cars of superior quality.

Wrought Iron Tyres made of any required size—the exact diameter of the Wheel Centre, being given, the Tires are made to fit on same without the necessity of turning out inside.

Iron and Brass castings, Axles, etc., fitted up complete with Trucks or otherwise.

NORRIS' BROTHERS.





of the New England Car Company under them, remain in force.

The New England Car Company are now prepared to answer orders for all that may be called for, on reasonable notice, and uniform and equitable terms.—

They invite the most careful examination, and the severest scrutiny, into the merits of their Springs, wherever they have applied them. And if after such examination, your Company should judge it for their character and properties.

D. N. PICKERING, Jr.,
Supt. Car Building B. & W. R. R.

The New England Car Company have introduced their Vulcanized India Rubber Car Springs on the verest scrutiny, into the merits of their Springs, roads with which we are respectively connected, and we fully concur with Mr. Hale in the above opinion of their character and properties.

DAVENPORT & BRIDGES, Car Builders.

BRADLEY & RICE, Car Builders.

BRADLEY & RICE, Car Builders.

BRADLEY & RICE, Car Builders.

Boston, June, 1848. your hands.

DAVENPORT & BRIDGES, Car Builders.

BRADLEY & RICE, Car Builders.

BRADLEY & RICE, Car Builders.

BROTHERS, No. 58 Liberty-street, New York, or with

The following article from the pen of Mr. Hale, the President of the Boston and Worcester Railroad, expresses his opinion of this important improvement, as published in the Boston Duly Advertiser of June 7, 1848. He says:

Art. Hale in the above opinion of Third & Walnut Streets, and are confidency which the pen of Mr. Hale, the President of the Boston Duly Advertiser of June 7, 1848. He says:

Art. Hale in the above opinion of Third & Walnut Streets, and are confidency with the Above opinion of Third & Walnut Streets, and are confidency with the Above opinion of Third & Walnut Streets, and are confidency with the Above opinion of Third & Walnut Streets, and the above opinion of Third & Walnut Streets, for Builders, and the above opinion of Third & Walnut Streets, for Builders, and the above opinion of Third & Walnut Streets, and the above opinion of Third & Walnut Streets, and the above op

The New England Car Company are now thich the wonderful elas the numerous uses to which the wonderful elas in operation on every Railroad terminating in Boston, and several others in New England and the Middle it has been men ore successful than in forming springs States. Their qualities are well understood, or may for some months past, its application to this use, on know them. They require no recommendation from the Company. The only known compound of India Rubber invented by Charles Goodyear, for New Haven, and the application of it, and the form of New Haven, and the application of it, and the form of New Haven, and the application of it, and the form of New York. The right to manufacture and sell the substance itself for the purpose of Railroad Carriage held exclusively by the New England Car Company. No other Company, or individual, has any right to use the article they sell for Railroad Carriage Springs only, against all adverse rights, whether under patents or otherwise; and all persons and corporations are cautioned against a similar use of the article, when purchased of any other parties.

The Springs they sell are all manufactured in a uniform manner, and under the immediate inspection of their own Agent, and have been manufactured in a uniform manner, and under the immediate inspection of the New England Car Company under them, remain in force.

The New England Car Company are now prepared to answer orders for all that may be called for, on reasonable notice, and uniform and equitable terms.—

The New England Car Company are now prepared to answer orders for all that may be called for, on reasonable notice, and uniform and equitable terms.—

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The New England Car Company are now prepared to answer orders for all that may be called for, on reasonable notice, and uniform and equitable terms.—

The New England Car Company are now prepared to answer orders



TO RAILROAD COMPANIES AND BUILD-ERS OF MARINE AND LOCOMOTIVE ENGINES AND BOILERS.

### PASCAL IRON WORKS.

### WELDED WROUGHT IRON TOBES

From 4 inches to 1 in calibre and 2 to 12 feet? capable of sustaining pressure from 400 to 2500 per square inch, with Stop Cocks, T. 4, other fixtures to suit. fitting together, with a joints, suitable for STEAM, WATER, GAS, am LOCOMOTIVE and other STEAM BOILER Pr



Manufactured and for sale by MORRIS, TASKER & MORRIS.
srebouse S. E. Corner of Third & Walnut Streets,

### RAILROAD WHEELS.

CHILLED RAILROAD WHEELS,—THE UN CHILLED RAILROAD WHEELS.—THE UNdersigned are now prepared to manufacture their Improved Corrugated Car Wheels, or Wheels with any form of spokes or discs, by a new process which prevents all strain on the metal, such as is produced in all other chilled wheels, by the manner of casting and cooling. By this new method of manufacture, the hubs of all kinds of wheels may be made whole—that is, without dividing them into sections—thus rendering the expense of banding unnecessary; and the wheels subjected to this process will be much stronger than those of the same size and weight, when made in the ordinary way.

A. WHITNEY & SON,

Willow St., below 13th,

Willow St., below 13th, Philadelphia, Pa

CHILLED RAILROAD WHEELS.—THE UN CHILLED RAILROAD WHEELS.—THE UNdersigned, the Original Inventor of the Piate.
Wheel with solid hub, is prepared to execute all orders for the same, promptly and faithfully, and solicits a share of the patronage for those kind of wheels which are now so much preferred, and which he originally produced after a large expenditure of time and money.

A. TIERS,

Point Pleasant Foundry.

He also offers to furnish Rolling Mill Castings, and other Mill Gearing, with promptness, having, he believes, the largest stock of such patterns to be found A. T.

the country.
Kensington, Philadelphia Co.,
March 12, 1848.

New PATENT CAR WHEELS.—THE SUBscribers are now manufacturing Metallic Plate Wheels of their invention, which are pronounced by those who have used them, a superior article, and the demand for them has met the most sanguine anticipations of the inventors. Being made of a superior quality of Charcoal Iron, they are warranted equal to any manufactured.

We would refer Railroad Companies and others to the following roads that have them in use. Hartford and New Haven, Connecticut River, Housatonic, Harlem, Farmington, and Stonington Railroads.

SIZER & CO.,
Springfield, Mass.

Springfield, Mass.

### RAILROADS.

BOSTON AND PROVIDENCE RAILROAD On and after MONDAY, OCTOBER 2d, the Trains will run as follows :-

Steamboat Train—Leave Boston at 5 pm Leaves Providence on the arrival of the train from Stoning-

Accommodation Trains—Leave Boston at 8 am., and 3½ pm. Leave Providence at 8½, a.m., and 3½, and 31 pm.

Dedham Trains—Leave Boston at 9 am., 12 m., 3 and 104 pm. Leave Dedham at 74, 104, am., 14 6, and 101 pm. 41, and 9 pm.

Stoughton Trains—Leave Boston at 111 am., and pm. Leave Stoughton at 81 am., and 21 pm.

Freight Trains—Leave Boston at 11 am., and 6 pm. Leave Providence at 4 am., and 7.40 am.

On and after Wednesday, Nov. 1, the DEDHAM TRAIN will run as follows: Leave Boston at 9 am., 12 m., 3, 5‡, and 10½ pm. Leave Dedham at 8, 10½, am., 1¼, 4½, and 9 pm. WM. RAYMOND LEE, Sup't.

NORWICH AND WORCESTER RAILROAD. Winter Arrangement,-1848.

Winter Arrangement.—1848.

Accommodation Trains daily (Sundays excepted.)

Leave Norwich at 6 am., 12 m., and 22 pm.
Leave Worcester at 64 and 10 am., and 42 pm., connecting with the trains of the Boston and Worcester, and Providence and Worcester railroads.

New York & Boston Line. Railroad & Steamers.

Leave New York and Boston daily, Sundays excepted, at 5 pm.—At New York from pier No. 1, North River.—At Boston from corner Lincoln and Beach streets, opposite United States Hotel. The steamboat train stops only at Framingham, Worcester, Danielsonville and Norwich.

Freight Trains leave Norwich and Worcester daily.

Freight Trains leave Norwich and Worcester daily, Sundays excepted.—From Worcester at 64 am., from Norwich at 7 am.

Fures are Less when paid for Tickets than when aid in the Care. S. H. P. LEE, JR., Sup't.

EASTERN RAILROAD, WINTER ARRANGEment. On and after MONDAY, Oct. 2 1848,
WINTER ARRANGEMENT.
Trains will leave Eastern Railroad
Depot, Eastern Avenue, Commeruntil further notice, the trains

Astreet, Boston, daily, (Sundays excepted).
For Lynn, 7, 9 11½, a.m., 12, 2½, 3½, 4½, 6, p.m.
Salem, 7, 9, 11½, a.m., 12, 2½, 3½, 4½, 6, p.m.
Manchester, 9, a.m., 31, p.m.
Gloucester, 9, a.m., 31, p.m.
Newburyport, 7, 11½, a.m., 2½, 4½, p.m.
Portsmouth, 7, am., 2½, 4½, pm.
Portland, Me., 7, am., 2½, pm.

Portland, Me., 7, am., 2½, pm.

And for Boston,
From Portland, 7½, am., 3, pm.
Portsmouth, 7, 9½\*, am., 5½\*, pm.
Newburyport, 7½, 10½\*, am., 2, 6\*, pm.
Gloucester, 7½, am., 3½ pm.
Manchester, 8, am., 3½, pm.,
Salem, 7½, 6½\*, 9\*, 10½, 11-40\*, am., 2½, 3\*,
4½\*, 7\*, pm.
Lynn, 7½, 8½\*, 9½\*, 10½, 11-55\*, am., 2½, 3½\*,
4½\*, 7\*, pm.

Lynn, 7½, 8½\*, 9½\*, 10½, 11-55\*, am., 2½, 3½\*,
4½\*, 7\*, pm.

The Road will be opened to Binghampton and intermediate places on Monday, the 9th January, 1849, on which day, and until further notice, the through trains will run as follows:

FOR FREIGHT.

Leave New York at 4 o'clock, pm., per steamboat New Haven, and Barges.

The Road will be opened to Binghampton and intermediate places on Monday, the 9th January, 1849, on which day, and until further notice, the through trains will run as follows:

FOR PREIGHT.

Leave New York at 4 o'clock, pm., per steamboat New Haven, and Barges.

The Road will be opened to Binghampton and intermediate places on Monday, the 9th January, 1849, on which day, and until further notice, the through trains will run as follows:

FOR PREIGHT.

Leave New York for Business and Friedly at 4 o'clock, pm., per steamboat New Haven, and Barges.

The Road will be opened to Binghampton and intermediate places on Monday, the 9th January, 1849, on which day, and until further notice, the through trains will run as follows:

FOR PREIGHT.

Leave New York for Business and Friedly at 4 o'clock, pm., per steamboat New Haven, and Barges.

The Road will be opened to Binghampton and intermediate places on Monday, the 9th January, 1849, on which day, and until further notice, the through trains will run as follows:

FOR FREIGHT.

.m. On Tuesday, Thursday, and Saturday, a train wil ave EAST BOSTON for Lynn and Salem, at 101 o'clock, pm.
\* Or on their arrival from the East.

MARBLEHEAD BRANCH.

MARBLESIESS

Trains to leave
Marblehead for Salem, 7‡, 9‡, 10, 11-25, am.
2, 4‡, 6‡, pm.

Salem for Marblehead, 7‡, 9‡, 10‡, am., 12‡, 3‡, 5‡, 6‡, pm.

GLOUCESTER BRANCH.

GLOUCESTER

Trains leave

Salem for Manchester at 9‡, am., 4‡, pm.

Salem for Gloucester at 9‡, am., 4‡, pm.

Trains leave

Gloucester for Salem at 7‡, am., 3‡ pm.

Manchester for Salem at 8, am., 3‡ pm.

Freight Trains each way daily. Office 1 Merchants' tow, Boston.

Feb. 3. JOHN KINSMAN, Superintendent.

Row, Boston.
Feb. 3. JOHN KINSMAN, Superintendent.
Feb. 3. JOHN KINSMAN, Superintendent.

SSEX RAILROAD—SALEM to LAWRENCE, through Danvers, New Mills, North Danvers,
Middleton, and North Andover.

Middleton, and North Andover.

Salem for South Danvers at 7.45, 9, am., 12.45,
3.15, 6.45, pm.

Salem for North Danvers at 7.45, 9, am., 12.45,
3.15, pm.

Salem for Lawrence, 9\*, am., 3.15\*, pm.
Danvers 9.10, am., 3.15\*, pm.
North Danvers 9.20, am., 3.35, pm.
Middleton 9.30, am., 3.45, pm.
North Andover 10, am., 4.20, pm.
South Danvers for Salem at 7.45, 8.45, 11.30, am.
2, 45.5, pm.

North Danvers 8.20, 11.10, am., 1.40, 5.40, pm.

North Andover

JOHN KINSMAN, Superintendent.

BOSTON AND MAINE RAILROAD.

Spring Arrangement, 1849. Outward Trains from Boston

For Portland at 6‡ am. and 2‡ pm.
For Rochester at 6‡ am., 2‡ pm.
For Rochester at 6‡ am., 2‡ pm.
For Great Falls at 6‡ am., 2‡, 4‡ pm.
For Haverhill at 6‡ and 12 m., 2‡, 4‡ 6 pm.
For Lawrence at 6‡, 9, am., 12 m., 2‡, 4‡, 6, 7‡ pm.
For Reading 6‡, 9 am., 12 m., 2‡, 4‡, 6, 7‡, 9‡\* pm.

Inward trains for Boston Inward trains for Boston
From Portland at 7½ am., 3 pm.
From Rochester at 9 am., 4½ pm.
From Great Falls at 6½, 9½ am., 4½ pm.
From Haverhill at 7, 8½, 11 am., 3, 6½ pm.
From Lawrence at 6, 7½, 8½, 11½, am., 1½, 3½, 7 pm.
From Reading at 6½, 7½, 9½ am., 12 m., 2, 3½, 6, 7½ pm.
MEDECOLD REANCH TRAINS.

MEDFORD BRANCH TRAINS.

Leave Boston at 7, 9½ am., 12½, 2½, 5½, 6½, 9½\* pm.

Leave Medford at 6½, 8, 10½ am., 2, 4, 5½, 6½, pm.

\* On Thursdays, 2 hours; on Saturdays, 1 hour CHAS. MINOT, Super't.

Boston, March 27, 1849.

FOR PASSENGERS.

Leave NEW YORK, (foot of Duane street,) at 7 o'clock, am., by steamer Erie. Leave Port Jervis at 6 o'clock am.,
An Accommodation Train, for passengers and milk, will run in connection with the steamboat towing the Freight Barge, leaving New York and Port Jervis at 4 o'clock pm.

Leave New York from Duane street Pier, at o'clock, and Binghamton at 7 o'clock, am., daily.

FOR FREIGHT.

Leave New York at 4 o'clock, pm., and Binghamton at 7 o'clock, am., daily, Sundays excepted.
H. C. SEYMOUR, Superintendent.

January 1st, 1849.

NEW YORK & HARLEM RAILROAD, DAILY. WINTER ARRANGEMENT.

ON and after December 1st, 1848, the Care will run

as follows, until further notice:-Trains will leave the City Hall, New York, for Harlem and Morrisiana at 7, 9, 9.30, 11, am. 12 m., 2, 4, 4.15, 5.30, pm.

Trains will leave the City Hall, New York, for Fordham and Williams Bridge, at 7 30 and 9 30 am., 12 m., 2, 4 15, 5 30 pm.

Trains will leave the City Hall, New York, for Hunt's Bridge, Underhill's and Hart's Corners, at 9 30 am., 4 15 pm.

Trains will leave the City Hall, New York, for Tuckahoe and White Plains, at 7 30 and 9 30 am., 3 and 4 15 pm.

Trains will leave the City Hall, New York, for Tuckahoe and White Plains, at 7 30 and 9 30 am., 3 and 4 15 pm.

Trains will leave Davis' Brook, Pleasantville, Chapequa, Mount Kieko, Bedford, Mechanicsville, Purdy's and Croton Falls, at 7 30 and 9 30 am., 3 pm.

NOTICE—Passengers are reminded of the great danger of standing upon the platform of the cars, and hereby notified that the practice is contrary to the rules of the Company, and that they do not admit any responsibility for injury sustained by any passenger upon the platforms, in case of accident.

Returning to New York will leave

Morisiana and Harlem at 7 20,8, 8 50, 10 am., 12m., 1 35, 3, 3 45, 5, 5 35 pm.

Fordham and William's Bridge at 7, 8 30, 9 50 am., 1 15, 3 25, 5 20 pm.

Hunt's Bridge at 8 20, am., 3 18 pm.

Tuckahoe at 8 05, 9 30 am., 3 05, 5 pm.

Hart's Corners at 7 55 am., 2 52 pm.

White Pl ains at 7 45, 9 10 am., 2 45, 4 40 pm.

Davis' Brook at 9 am., 2 35, 4 30 pm.

Pleasantville at 8 49 am., 2 20, 4 19 pm.

Mount Kisko at 8 30 am., 2 4 pm.

Bedford at 8 25 am., 1 55, 3 55 pm.

Croton Falls, at 8 am., 1 30, 3 30 pm.

The trains for Harlem and Morrisiana leaving City Hall at 7, 9, 9 30, 11, 12, 2, 4, and 5 30, and from Morisiana and Harlem at 7 20, 8, 10, 12, 1 35, 3, 3 45, and 5 oclock, will land and receive passengers at 27th st., 42d, 51st, 61st, 79th, 86th, 109th, 115th, 125th, and 132d streets.

The 730 am., and 3 pm. Trains from New York to Croton Falls, and the 8 am. Train from Croton Falls will not stop between White Plains and New York, except at Tuckahoe, Williams Bridge and Fordham.

A car will precede each train ten minutes to take up passengers in the city. The last car will not stop, except at Broome st. and 32d street.

Freight Trains leave New York at 6 am. and 1 pm.: leave Croton Falls at 7 am. and 2 30 pm., Sundays excepted.

NOTICE—On Sundays the 7 am, to Hartem and Morrisians, returning at 8 o'clock, and the 7.30 am, to Croton Fells, returning 1.30 pm., will be omitted, and the 7 am, from Williams Bridge will leave at 7.40, and Morrisiania and Harlem at 8 o'clock am.

	AMEI
	DALTEMORE AND SUSQUEHANNA RAIL- ROAD.—Reduction of Fare. Morning and Af-
1	temoon Traina between Baltimore and York.—The Passenger Trains run dally, except Sundays, as follows:
	Leaves Baltimore at 9 am. and 3† pm. Arrives at 9 am. and 5† pm. Leaves York at 5 am. and 3 pm.
	Arrives at
	Fare to York \$1 50
	Way points in proportion
	PITTSBURG, GETTYSBURG, AND HAR- RISBURG.  Through tickets to Pittsburg via stage to Harris-
	or via Lancaster by railroad - 10 Through tickets to Harrisburg or Gettysburg - 3
	In connection with the afternoon train at 3 o'clock, a horse car is run to Green Spring and Owning's Mill, arriving at the Mills at 5 pm.
	Mill, arriving at the Mills at - 51 pm.  Returning, leaves Owning's Mills at - 7 am.  D. C. H. BORDLEY, Sup't.  31 ly Ticket Office, 63 North st.
	GEORGIA RAILROAD. FROM AUGUSTA
	AND WESTERN AND ATLANTIC BAILROAD, FROM AT- LANTA TO DALTON, 100 MILES.  This Road, in connection with the
	South Carolina Railroad, and West-

lesti i leta la Alla R.	ATES OF PREIGHT.	Between Augusta and Dalton	Between Charleston and Dalton
Ser Copp.	obcort out your shoot see	271 miles.	408 miles
11 (2)	Boxes of Hats, Bonnets, and Furniture, per cu- bic foot	\$0 18	\$0 28
2d class	Boxes and Bales of Dry Goods, Sadlery, Glass, Paints, Drugs, and Con-	0 0 307	- 112
3d class	fectionary, per 100 lbs. Sugar, Coffee, Liquor, Bag- ging, Rope, Cotton, Yarns		1 50
r tu r svigte	Tobacco, Leather, Hides, Copper, Tin, Feathers, Sheet Iron, Hollow ware, Castings, Crockery, etc.	fellg	0 85
4th class	Flour Rice, Bacon, Pork, Beef, Fish, Lard, Tallow, Beeswax, Bar Iron, Gin- seng, Mill Gearing, Pig Iron, and Grindstones,	creates the size of	V lass
That	etc. Cotton, per 100 lbs	0 40 0 45	0 65 0 70
	Molasses per hogshead - " barrel - Salt per bushel -	8 50 2 50 0 18	13 50 4 25
.00	Salt per Liverpool sack - Ploughs, Corn Shellers, Cultivators, Straw Cut-		en na i
	town 187h calls amanana	0.75	1 50

ern and Atlantic Railroad, now forms a continuous line, 408 miles in length, from Charleston to Dalton (Cross Plains) in Murray county, Ga. 32 miles from Chartanooga, Tenn.

ters, Wheelbarrows - - 0 75 | 1 50 German or other emigrants, in lots of 20 or more, will be carried over the above roads at 2 cents per

mile.

Goods consigned to S. C. Railroad Company will be forwarded free of commissions. Freights payable at Dalton.

F. C. ARMS, 44\*1y

Sup't of Transportation.

THE WESTERN AND ATLANTIC RAIL-ROAD.—This Road is now in operation to Ooth-caloga, a distance of 80 miles, and connects daily (Sundays excepted) with the Georgia Railroad.

From Kingston, on this road, there is a tri-weekly line of stages, which leave on the arrival of the cars on Tussday, Thursday and Saturday, for Warrenton, Huntsyille, Decatur, and Tuscumbia, Alabama, and Memphis, Tennessee.

On the same days the stages leave Oothcaloga for Chattanooga, Jasper, Murfreesborough, Knoxville and Nashville, Tennessee.

This is the mast expeditious route from the east to any of these places.

CHAS. F. M. GARNETT,
Chief Engineer

ITTLE MIAMI RAILROAD.—WINTER AR-RANGEMENT.

Change of Hours.
Gn and after Thursday, November—
9th, 1848, until further notice, Passenger Trains

9th, 1848, until further notice, Passenger Frains will run as follows: Leave Depot East Front street at 9½ o'clock, am., and 2½ o'clock, p.m., for Milford, Foster's Crossings, Deerfield, Morrow, Waynesville, Spring Valley, Xenia, Yellow Springs, and Springfield. Returning, leaves Springfield, at 2½ o'clock, and 9½ o'clock, am.

o'clock, am.

Passengers for New York, Boston, and intermediate bints, should take the 91 o'clock, am., Train from Cincinnati. Passengers for Columbus, Zanesville, Wheeling and intermediate towns, should take the 91 o'clock, am.,

Train.

The Ohio Stage Company are running the following lines in connection with the Trains:

A Daily Daylight Line to Columbus from Springfield in connection with the Morning Train from Cincinna ti. Also, Daily Lines to Columbus, from Xenia and Springfield, connecting with the 2½ o'clock, pm. Train from Cincinnati.

The 2½, pm., Train from Cincinnati, and 2½, am., Train from Springfield, are intended for the accommodation of Way Passengers only, and will be eight hours on the road.

Fare from Cincinnati to Xenia

Fare from Cincinnati to Xenia Springfield -Sandusky City Buffalo Do Do Do 2 50 6 50 10 00 do do do do Columbus 4 50 For other information and through tickets, apply at the Ticket Office on Broadway, near Front-st., Cin-

W. H. CLEMENTS, Superintendent W. H. CLEMENTS, Supermendent.
The Company will not be responsible for Baggage exceeding 50 dollars in value, unless the same is returned to the Conductors or Agent, and freight paid at the rate of a passage for every 500 dollars in value of the company. to that amount

to that amount.

DALTIMORE AND OHIO RAILROAD, MAIN STEM. The Train carrying the Great Western Mail leaves Baltimore every morning at 74, and Cumberland at 8 o'clock passing Ellicott's Mills, Frederick, Harper's Ferry, Martinsburgh and Hancock, connecting daily each way with—the Washington Trains at the Relay House seven miles from Baltimore, with the Winchester Trains at Harpers Ferry—with the various railroad and steamboat lines between Baltimore and Philadelphia, and with the lines of Post Coaches between Cumberland and Wheeling and the fine Steamboats on the Monongahela Slack Water between Brownsville and Pittsburgh. Time of arrival at both Cumberland and Baltimore 5½ P. M. Fare between these points 37, and 4 cents per mile for less distances.—Fare through to Wheeling \$11, and time about 36 hours, to Pittsburgh \$10, and time about 32 hours.—Through tickets from Philadelphia to Wheeling \$13, to Pittsburgh \$12. Extra train daily, except Sundays, from Baltimore to Frederick at 4 P. M., and from Frederick to Baltimore at 8 A. M.

WASHINGTON BRANCH.

Daily trains at 9 A. M., and 5 P. M., and 12 at night from Baltimore, and at 6 A. M. and 5½ P. M. from Washington, connecting daily with the lines North, South and West, at Baltimore, Washington, and the Relay House. Fare \$160 through between Baltimore and Washington, in either direction, 4 cents per mile for immediate distances.

S13 y1

PHILADAR HIA, WILMINGTON, & BALTI.

Winter Arrangement.
December 4th.—Fare \$4. Leave Philadelphia S am., and 4 pm.
Leave Baltimore 9 am, and 8 pm.
Sunday—Philadelphia only at 4 pm.
"Baltimore only at 8 pm.
Trains stop at way stations. A second class ear run with morning line only.

Charleston, S. C.
Through tickets Philadelphia to Charleston, \$20.
Connecting lines to Charleston leave Philadelphia t 4 pm. daily—leave Baltimore at 111 pm. daily.

4 pm. daily—leave Baltimore at 114 pm. daily.

Pittsburg and Wheeling.

Through ticket, Philadelphia to Pittsburg, \$12.

Wheeling, 13.

All through tickets only sold at office Philad.

Wilmington Accommodation.

Leaves Philadelphia at 14 and 4 pm.

Leaves Wilmington at 8 am., and 4 pm.

N.B.—Extra baggage charged for. N.B.—Extra baggage charged for.

I. R TRIMBLE, Gen. Supt. PHILADELPHIA & READING BAILROAD. nger Train Arranger

A Passenger Train will leave Philadelphia and Pottsville daily, exept Sundays, at 5 o'clock am.
The Train from Philadelphia arrives at Reading at

12 18 m.

The Train from Pottsville arrives at Reading at 10

Fares. Miles. No. 1. No. 2
Between Phila. and Pottsville, 92 \$3.50 and \$3.00
" Reading 58 2.25 and 1.90
" Pottsville " 34 1.40 and 1.20 Five minutes allowed at Reading, and three at other

ay stations.

Passenger Depot in Philadelphia corner of Broad and Vine streets.

CENTRAL RAILROAD—FROM SAVANNAH to Macon. Distance 190 miles.

to Macon. Distance 150 Ind.
This Road is open for the transportation of Passengers & Freight
Passage - \$8 00. Freight—
ght goods generally, 50 cts. per hundred 13 cts. per cubic ft. Rate of Passage
On weight goods generally,
On measurement goods
On bris. wet (except molasses

On brls. wet and oil)
On brls. dry (except lime)
On iron in pigs or bars, castings
for mills, and unboxed machinery 1 50 per barrel. 80 cts. per barrel.

nery 40 cts. per hundred
nery 50 hhds. and pipes of liquor,
not over 120 gallons 50 00 per hhd.
On molasses and oil 56 00 per hhd.
Goods addressed to F. WINTER, Agent, forward
ed free of commission.
THOMAS PURSE, 40 cts. per hundred

THOMAS PURSE, Gen'l Sup't Transportation.

SOUTH CAROLINA RAILROAD.—A PASsenger Train runs daily from Charleston, on the
arrival of the boats from Wilmington,
N. C., in connection with trains on

the Georgia, and Western and Atlantic Railroads-and by stage lines and steamers connects with the Montgomery and West Point, and the Tuscumbia Railroad in N. Alabama.

Fare through from Charleston to Montgomery

Fare through from Charleston to Hongand daily - \$26 50

Fare through from Charleston to Huntsville,
Decatur and Tuscumbia - 22 00

The South Carolina Railroad Co. engage to receive merchandize consigned to their order, and to forward the same to any point on their road; and to the different stations on the Georgia and Western and Atlantic Railroad; and to Montgomery, Ala., by the West Point and Montgomery Railroad.

JOHN KING, Jr., Agent.

PATENT MACHINE MADE HORSE-SHOES.

The Troy Iron and Nail Factory have always on hand a general assortment of Horse Shoes, made from Refined American Iron. Four sizes being made, it will be well for those ordering to remember that the size of the shoe increases as the numbers—No. I being the smallest.

P. A. BURDEN, Agent,
Troy Iron and Nail Factory, Troy, N. Y.

SPRING STEEL FOR LOCOMOTIVES, TENDERS AND CARS.—The subscriber is engaged in manufacturing spring steel from 11 to 6 inches in width, and of any thickness required: large quantities are yearly furnished for railroad purposes, and wherever used its quality has been approved of. The establishment being large, can execute orders with great promptitude, at reasonable prices, and the quality war ranted. Address J. F. WINSLOW, Agent, Albany Iron and Nail Works.

Albany Iron and Nail Works.

DATENT HAMMERED RAILROAD, SHIP & BOA'T SPIKES.—The Albany Iron Works have always on hand, of their own manufacture, a large assortment of Railroad, Ship and Boat Spikes, from 2 to 12 inches in length, and of any form of head. From the excellence of the material always used in their manufacture, and their very general use for railroads and other purposes in this country, the manufacturers have no hesitation in warranting them fully equal to the beat spikes in market, both as to quality and appearance. All orders addressed to the subscribers at the works will be promptly executed.

JOHN F. WINSLOW, Agent.

Albany Iron and Nail Works, Troy, N. Y.

The above Spikes may be had at factory prices, of Erastus Corning & Co., Albany; Merritt, & Co., New York; E. Pratt & Brother, Baltimors, Md.



### RIDER'S PATENT IRON BRIDGE.

The Rider laon Baider having been fully tested on the Harlem Railroad, by constant use for about eighteen months, and found to answer the full expectations of its most sanguine iriends, is now offered to the public with the utmost confidence as to its great utility over any other Bridge now known.

The plan of this Bridge is to use the iron so as to obtain its greatest longitudinal strength, and at the same time is so arranged as to secure the combined principles of the Arch, Suspension and Triangle, all under such controlling power as causes each to act in the most perfect and secure manner, and at the same time impart its greatest strength to the whole work.

impart its greatest strength to the whole work.

The Inon Ridge Bridge Company are prepared to furnish large quantities of Iron Bridging for Railroad or other purposes, made under the above patent, at short notice, and at prices far more economical than the best wood structure, and on certain conditions, the first cost may be made the same as wood.

Models, and pamphlets giving full descriptions of the Ridge Bridge, with certificates based on actual trial from undoubted sources, will be found at the office of the Company, 74 BROADWAY, up stairs, or of W. Ridge & Brothers, 58 Liberty Street, where terms of contract will be made known, and where orders are solicited.

M. M. WHITE, November 25, 1848.

Agent for the Company. November 25, 1948.

Fuller's Patent India-Rubber Springs.



Branch office, Messrs, James Lee & Co.'s, No. 18 India Wharf, Boston.

Mr. Hale, the President of the Boston and Worcester Railroad, wrote an article concerning Fuller's Springs. The "New England Car Company" take the liberty of publishing that article, omitting, however, a very important part; it is therefore given in full now, and the portion omitted by the New England Car Company is printed in italies, that the public may judge the manner in which this "company" pervert Mr. Hale's meaning.

THERE can note be me ground of opposition what each of the springs. The Commissioner of Patents for a similar Spring. The Commissioner of Patents for a similar Spring, but a Patent has just been crossed on entirely of the sex Springs. The Commissioner of Patents has not only rejected the application for a Patent for a similar Spring, but a Patent has just been crossed on entirely new species of India Rubber from entirely new species of India Rubber from entirely new species of India Rubber in the statement of the "New England Car Company" is the statement of the "New England Car Company" is the statement of the "New England Car Company" is the lightest, the most simple and most durable—there be ingless friction in this form to make a good spring than in way other because each disc or ring of India Rubber is required. The Spring (composed by alternate layers of India Rubber is required in this form to make a good spring than in way other because each disc or ring of India Rubber is required in this form to make a good spring than in way other because each disc or ring of India Rubber is required in this form to make a good spring than in way other because each disc or ring of India Rubber is required in this form to make a good spring than in way other because each disc or ring of India Rubber is required in this form to make a good spring than in way other because each disc or ring of India Rubber is firmly supported by metal plates, and form in itself a distinct spring—nor is any spiral spring required. The Patentee is consequently able to supply efficient springs at a less cost than any other parties can do. Purchasers are guaranteed in the use of these springs.

The New England Car Company have so right to make an Indiarabler Spring with a 80ti through the way in the patent springs of the warious does not success. It is applicable equally to Passent of the warious does not success. It is applicable equally to Passent of the warious does not success. It is applicable equally to Passent of the warious does not

### RAILROAD SCALES,

PAIRBANKS RAILROAD SCALES. AIRBANKS' RAILROAD SCALES.—

subscribers are prepared to construct at shortice, Railroad and Depot Scales, of any desired is and capacity. Their long experience as manufacers—their improvements in the construction of the rious modifications, having reference to strength rability, retention of adjustment, accuracy of wand dispatch in weighing—and the long and setests to which their scales have been subjected—bine to ensure for these scales the universal confid of the public.

No other scales are so extensively used upon roads, either in the United States or Great Britain and the managers refer with confidence to the folling in the United States.

Eastern Railroad.

ing in the United States.

Eastern Railroad.
Providence Railroad.
Old Colony Railroad.
Schenectady Railroad.
Balt. and Ohio Railroad.
Balt. and Ohio Railroad.
Balt. and Ohio Railroad.
Baltimore and Wor. Road.
Syracuse and Utica Road.
Schuylkill Valley Road.
Schuylkill Valley Road.
Macon and Western Road.
And other principal Railroads in the Western, Middle and Southern States.

E. & F. FAIRBANKS & CO.
St. Johnsbury, Vt.
Agents, FAIRBANKS & CO., 31 Water st., N. York.
A. B. Norskis, 196 Market st., Philadelphia.
April 22, 1848.

RAILROAD SCALES. — THE ATTENTION of Railroad Companies is particularly requested to Ellicott's Scales, made for weighing loaded cars in trains, or singly, they have been the inventors, and the first to make Platform Scales in the United States; supposing that an experience of Theority years has given him a knowledge and superior advantage in the Justinese.

business.

The levers of our scales are made of wrought iron, all the bearers and fulcrums are made of the best cast steel, laid on blocks of granite, extending across the pit, the upper part of the scale only being made of wood.

E. ELLICOTT has made the largest Railroad Scale in the world, its extreme length was One Hundred and Twenty Feet, capable of weighing ten loaded cars at a single draft. It was put on the Mine Hill and Schuyl-kill Haven Railroad.

We are prepared to make scales of any size to weigh

kill Haven Railroad.

We are prepared to make scales of any size to weigh from five pounds to two hundred tons.

ELLICOTT & ABBOTT,

Factory, 9th st., near Coates, cor. of Melon st.

Office, No. 3, North 5th street,

ly25

Philadelphia, Pa.,

English Kallroad Iron. 3000 Tons H pattern Rails in store, and to arrive this Spring—58 and 60 lbs per yard; of an approved pattern, best English make, each bar being stamped with the manufacturer's name, and inspected before shipment at the works in Wales. For sale by

DAVIS, BROOKS & CO.,

March 18, 1849

AMERICAN RAILROAD JOURNAL PUBLISHED BY J. H. SCHULTZ & CO.

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(THIRD FLOOR,)

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HENRY V. POOR, 54 WALL ST.